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A WFC3 GRISM EMISSION LINE REDSHIFT CATALOG IN THE GOODS-SOUTH FIELD

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ABSTRACT

We combine *HST*/WFC3 imaging and G141 grism observations from the CANDELS and 3D-HST surveys to produce a catalog of grism spectroscopic redshifts for galaxies in the CANDELS/GOODS-South field. The WFC3/G141 grism spectra cover a wavelength range of $1.1 \leq \lambda \leq 1.7\mu m$ with a resolving power of $R \sim 130$ for point sources, thus providing rest-frame optical spectra for galaxies out to $z \sim 3.5$. The catalog is selected in the H-band (F160W) and includes both galaxies with and without previously published spectroscopic redshifts. Grism spectra are extracted for all H-band detected galaxies with H≤24 and a CANDELS photometric redshift $z_{phot} \geq 0.6$. The resulting spectra are visually inspected to identify emission lines and redshifts are determined using cross-correlation with empirical spectral templates. To establish the accuracy of our redshifts, we compare our results against high-quality spectroscopic redshifts from the literature. Using a sample of 411 control galaxies, this analysis yields a precision of $\sigma_{NMAD} = 0.0028$ for the grism-derived redshifts, which is consistent with the accuracy reported by the 3D-HST team. Our final catalog covers an area of 153 arcmin^2 and contains 1019 redshifts for galaxies in GOODS-S. Roughly 60% (608/1019) of these redshifts are for galaxies with no previously published spectroscopic redshift. These new redshifts span a range of $0.677 \leq z \leq 3.456$ and have a median redshift of $z = 1.282$. The catalog contains a total of 234 new redshifts for galaxies at $z > 1.5$. In addition, we present 20 galaxy pair candidates identified for the first time using the grism redshifts in our catalog, including four new galaxy pairs at $z \sim 2$, nearly doubling the number of such pairs previously identified.

Subject headings: catalogs, galaxies: high-redshift, techniques:spectroscopic

1. INTRODUCTION

Accurate galaxy redshifts are vital to studying how the physical properties and environments of galaxies evolve over cosmic time. While high resolution, ground-based spectroscopy has traditionally provided the most reliable redshifts, these observations are time consuming for faint sources and are subject to the limited wavelength sensitivity of optical spectrographs, making it difficult to extent large redshift surveys beyond $z \sim 1.2$ (Davis et al. 2007; Lilly et al. 2007). Near-infrared (NIR) spectrographs are now pushing the redshift frontier into the so-called redshift desert (Trump et al. 2013; Sanders et al. 2014; Silverman et al. 2014; Wisnioski et al. 2014), however at these wavelengths ground based observations are subject to contamination from atmospheric OH lines. Photometric redshift estimates, on the other hand, can provide redshifts for large samples of galaxies, including relatively faint systems, at a lower observational cost compared to spectroscopy. However, even the best photometric redshifts have errors of a few percent and are subject to catastrophic outliers for rare sources, such as active galactic nuclei (AGN), if their unique spectral energy distributions (SED) and/or strong emission lines are not properly modeled a priori (Salvato et al. 2009, 2011).

Slitless grism spectroscopy with the Wide Field Camera 3 (WFC3) onboard the Hubble Space Telescope (*HST*) now provides a powerful alternative to ground-based spectroscopy and SED modeling for measuring distant redshifts. The slitless nature of the WFC3/IR grism offers the ability to obtain a spectrum of each galaxy in the detector's field-of-view, while the significantly reduced background levels compared to the ground means

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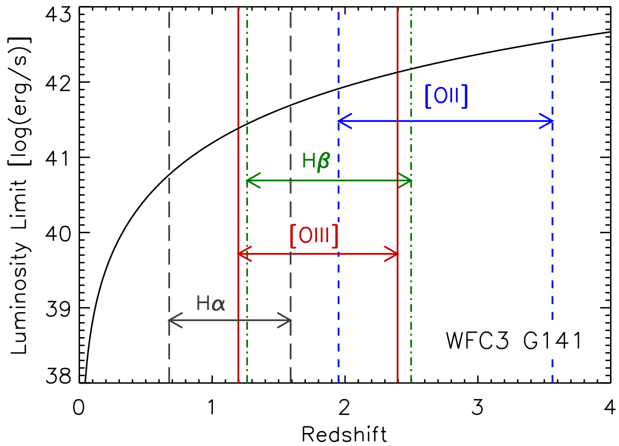

FIG. 1.— Line luminosity limits for detecting the Hα, Hβ, [OIII], and [OII] emission lines with 2 orbits of the *HST*/WFC3 G141 grism (corresponding to a line flux limit of 3×10^{-17}erg/s/cm^2). Dashed vertical lines indicate the redshift ranges at which various lines are visible in the G141 sensitivity window (1.1-1.7 μm).

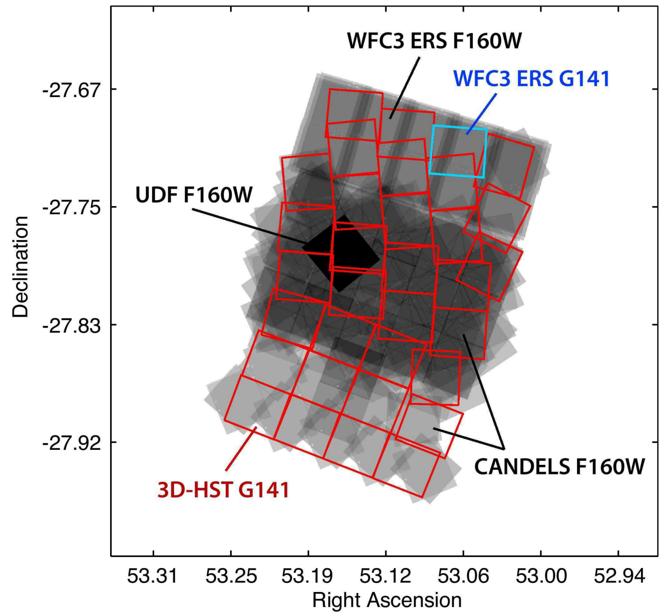

FIG. 2.— Layout in the GOODS-S field of the WFC3 F160W imaging and G141 grism observations used in this study. The imaging comes from the CANDELS, WFC3 ERS and HUDF09 programs, while the grism observations come from the 3D-HST (red) and WFC3 ERS programs (blue).

emission lines can be detected for relatively faint galaxies with modest exposure times (e.g. Trump et al. 2011; Brammer et al. 2012; Straughn et al. 2011; Atek et al. 2011; van der Wel et al. 2011). In addition, the near-infrared sensitivity of WFC3 provides access to many important rest-frame optical emission lines over a wide range of redshifts, from $H\alpha$ down to $z = 0.7$ to [OII] $\lambda3727$ at $z = 3.4$. Figure 1 shows the detectability of emission lines with 2-orbit depth G141 grism observations at various redshift ranges. Despite the low spectral resolution ($R \sim 130$) of the WFC3 grism, the resulting redshift accuracy is an order of magnitude better than typical photometric redshift errors (Brammer et al. 2012).

In this paper, we combine imaging and photometric redshifts from the Cosmic Assembly Near-Infrared Deep Extragalactic Legacy Survey (CANDELS; Grogin et al. 2011; Koekemoer et al. 2011) and WFC3/IR grism observations from the 3D-HST survey (Brammer et al. 2012) to produce a new grism spectroscopic redshift catalog for H-band selected galaxies in the GOODS-South field. The catalog contains emission-line redshifts for 608 sources which have no previously published spectroscopic redshifts and contains 234 new redshifts at $z > 1.5$. The paper is organized as follows: in Section 2 we introduce the datasets used in constructing the redshift catalog. In Section 3 we present the methodology used to inspect the grism spectra and measure redshifts. In Section 4 we present an overview of the redshift catalog and its key properties, provide an analysis of the accuracy of the redshift measurements, and use the new redshifts to identify close galaxy pair candidates. Finally, in Section 5 we summarize our work. Throughout this paper, we adopt the Chabrier IMF and the following cosmology: $H_0 = 70\ kms^{-1}Mpc^{-1}$, $\Omega_M = 0.3$, $\Omega_\Lambda = 0.7$. All magnitudes are in the AB system.

2. OBSERVATIONS AND SAMPLE SELECTION

2.1. *Optical and Infrared Imaging*

Our parent sample is drawn from the H-band selected photometric catalog of Guo et al. (2013), which made use of *HST*/WFC3 imaging of the GOODS-S field from three programs: CANDELS, the WFC3 Early Release Science program (ERS; Windhorst et al. 2011), and the HUDF09 program (Bouwens et al. 2010). The location of the WFC3 imaging from these three programs is shown in Figure 2. CANDELS has observed GOODS-S using a two-tiered Wide+Deep strategy. The Deep region covers the central third of the GOODS-S area (55 arcmin^2; Giavalisco et al. 2004) with 3, 4, and 6 orbits of F105W, F125W, and F160W imaging, respectively. The Wide region covers the southern third of the field with 2-orbit depth imaging in all three bands. The ERS program covers the northern third of GOODS-S with 2-orbit depth imaging in the F098M, F125W, and F160W bands. Finally, an area of 4.6 arcmin^2 in GOODS-S, the Hubble Ultra Deep Field, is covered by very deep 24, 34, and 53 orbits of F105W, F125W, and F160W imaging. The CANDELS team carried out a consistent reduction of the WFC3 imaging from all of these programs; for details we refer readers to Koekemoer et al. (2011).

The GOODS-S field has also been observed in the optical with the Advanced Camera for Survey (ACS) on *HST* as part of the GOODS *Hubble* Treasury Program (P.I. M. Giavalisco) in the B, v, i, and z bands with a total exposure time of 7200, 5450, 7028, and 18,232 seconds. For this study, we made use of the publicly available, version v3.0 mosaicked images from the GOODS Treasury Program. In the mid-infrared, we make use of *Spitzer*/IRAC 3.6 and 4.5 μm imaging from the *Spitzer* Extended Deep Survey (SEDS; P.I. G. Fazio; Ashby et al. 2013), which reaches total 3σ depths of ~ 26 AB mag.

In addition to the observations described above, the GOODS-S region has been targeted for some of the deepest ground-based observations ever taken, ranging from the U band (Nonino et al. 2009) to the K band (Fontana et al. 2014). A detailed description of these datasets can be found in Grogin et al. (2011) and Guo et al. (2013).

2.2. *Photometry and Photometric Redshifts*

For this study, we make use of the CANDELS photometric catalog of Guo et al. (2013). The catalog is H-band selected using a "max-depth" image that combines all available F160W in the GOODS-S field. The catalog contains 34930 unique sources and is 50% complete at $H \sim 26$. Multiwavelength photometry is obtained for the available *HST* bands using a modified version of SExtractor (Bertin & Arnouts 1996; see Galametz et al. 2013) using the F160W observations as the detection image. For *Spitzer*/IRAC imaging and ground-based observations of mixed resolution, the TFIT software (Laidler et al. 2007) was employed to obtain PSF-matched photometry. Further details on the CANDELS multiwavelength photometry catalogs can be found in Guo et al. (2013) and Galametz et al. (2013).

Photometric redshifts for each source were generated from SED modeling using the photometry catalog of Guo et al. (2013). A hierarchical Bayesian approach was employed in which the full photometric redshift probability distribution from 11 independent CANDELS investigators are combined to produce a more accurate redshift estimate. The detailed description of this process can be found in Dahlen et al. (2013). The photometry used ranged from the U-band to the *Spitzer*/IRAC 4.5 μm filter; see Guo et al. (2013). The resulting photometric redshifts are found to be accurate to the 2.9% level and have an outlier fraction (OLF) of 9.1% when compared with a sample of available spectroscopic redshifts.

2.3. *WFC3/IR Grism Data*

GOODS-S contains near complete spectroscopic coverage in the NIR with 2-orbit depth *HST*/WFC3 G141 grism observations taken by the 3D-HST survey (PI: P. van Dokkum; Brammer et al. 2012) and the WFC3 ERS program (Straughn et al. 2011), corresponding to a limiting line flux of 3×10^{-17}erg/s/cm^2. The locations of the G141 observations in the GOODS-S field are shown in Figure 2. The publicly available data were reduced using the aXe software package (Kümmel et al. 2009) to produce two- and one-dimensional wavelength- and flux-calibrated spectra. Spectra were reduced using the default (V2.0) aXe parameters. This means we use a single sky background and do not account for the background fluctuations which typically affect the WFC3 grisms (Brammer et al. 2014). (The GOODS-S G141 observations have lower overall background than the other CANDELS / 3D-HST fields, although the GOODS-S background can vary from 1–2 e$^-$/s within a single pointing, see Appendix B of Brammer et al. 2012.) The extraction window was set to be four times the object size projected perpendicular to the dispersion direction, where object size is measured from the F140W image using SExtractor. The spectra each cover a wavelength range of $1.1 \leq \lambda \leq 1.7\mu m$ with a resolving power $R \sim 130$ (46.5Å/pixel) for point sources. For each observation with the grism, an accompanying direct F140W image is taken to determine the wavelength zero-point for each spectrum. The uncertainty in the zero-point and the dispersion are 8Å and 0.06Å/pixel respectively. The dispersion correlates to $\sim 1000 kms^{-1}$ for Hα at $z > 1$. The total exposure time for each F140W direct image is 812 s and the total exposure time for each G141 grism image ranges between 4511 - 5111 s.

Finally, we registered the grism observations to the CANDELS imaging in the field by running SExtractor on the F140W direct images and cross-matched the resulting source catalog to the CANDELS F160W catalog of Guo et al. (2013). Through this cross-matching we derived an astrometric correction for each individual 3D-HST tile; the average derived correction was 0.″163 in $\Delta\alpha$ and 0.″248 in $\Delta\delta$.

2.4. *Sample Selection*

Our initial sample consists of 4511 sources selected from the catalog of Guo et al. (2013) based on the following criteria:

- H-band Magnitude: $H_{\rm F160W} \leq 24$
- Photometric Redshift: $z_{phot} \geq 0.6$

These criteria are chosen such that prominent emission features fall within the sensitivity window of the G141 grism, but also such that the number of sources to be inspected does not become unmanageably large(e.g. increasing the magnitude cut to $H_{\rm F160W} \leq 25$ more than doubles the sample size.) It is worth noting that as a result of these selection criteria, sources that are continuum-faint but have high-equivalent width emission lines may be missed from our initial selection. The same is true for sources with catastrophic failures in their photometric redshift estimates.

To determine which sources in our initial sample have preexisting spectroscopic redshifts, we compared the sample against a recent compilation of published spectroscopic redshifts in the GOODS-S field (N. Hathi, private communication). This compilation contains redshifts from various sources including Balestra et al. (2010); Cooper et al. (2012); Croom et al. (2001); Daddi et al. (2004); Huang et al. (2009); Kriek et al. (2007); Kurk et al. (2012); Le Fèvre et al. (2004); Mignoli et al. (2005); Ravikumar et al. (2007); Silverman et al. (2010); Strolger et al. (2004); Szokoly et al. (2004); Trump et al. (2013); van der Wel et al. (2004); Vanzella et al. (2008, 2009); Wolf et al. (2004); Wuyts et al. (2009); Xue et al. (2011), and the ESO GOODS/CDF-S Master Catalog[1]. We refer to this compilation as the Master Spectroscopic Catalog hereafter. Based on this comparison, we define two samples: a primary sample consisting of 3007 sources which do not appear in the master spectroscopic catalog and a secondary sample of 1504 sources which have published spectroscopic redshifts. In the following sections, we analyze the grism spectra of both samples in an identical manner (i.e., with no prior knowledge of any published spectroscopic redshift) and use the secondary sample to test the accuracy of our grism-derived redshifts (see §4.2).

Of the 4511 sources in the initial sample, 2314 sources in the primary sample and 1226 sources in the secondary sample fall within the 3D-HST G141 footprint and are detected in the F140W imaging. For the sources in the primary sample, we extracted 2723 unique grism spectra from the 36 individual 3D-HST and ERS pointings, with 343 sources being identified in multiple pointings. We

[1] Available online at `http://www.eso.org/sci/activities/garching/projects/goods/MasterSpectroscopy.html`

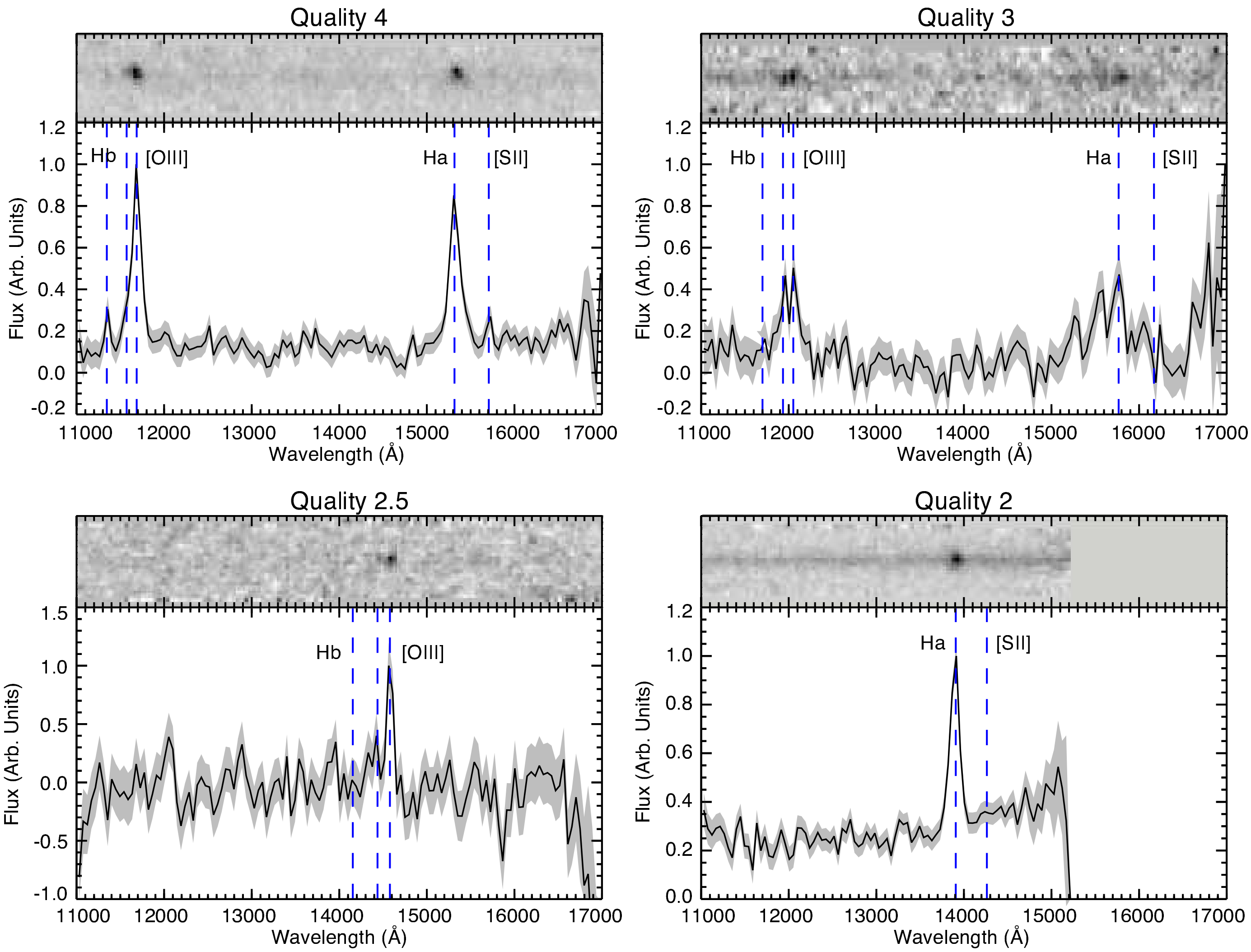

Fig. 3.— Examples of G141 grism spectra with quality flags 4.0 (multiple high S/N emission lines), 3.0 (multiple, lower S/N emission lines), 2.5 (single emission feature; redshift agrees with photometric redshift), and 2.0 (single emission feature; redshift disagrees with photometric redshift). Vertical dashed lines indicate the location of major emission features.

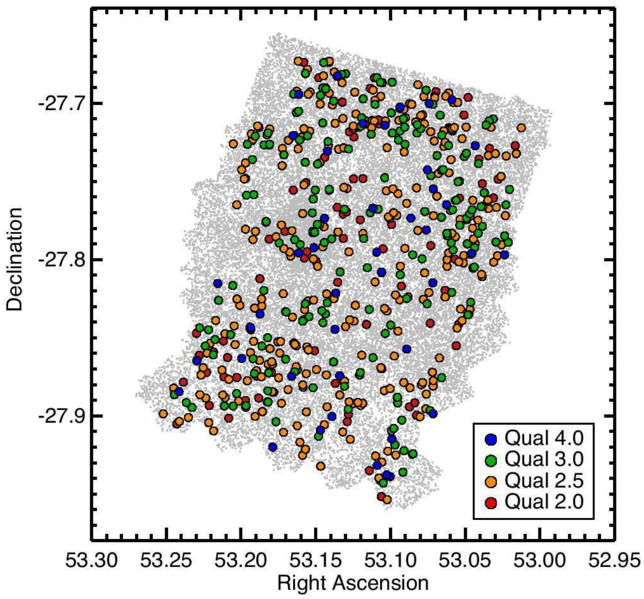

FIG. 4.— Distribution of sources with new grism redshifts in GOODS-S. Grey points are all sources from the catalog of Guo et al. (2013) and filled circles are sources with grism redshifts, color coded according to their assigned quality; see §3 for details.

extracted 1464 unique spectra for the secondary sample, with 224 sources being identified in multiple pointings.

3. REDSHIFT MEASUREMENT

The extracted 2D and 1D spectra for each object in our samples were visually inspected using the `SpecPro` IDL software package Masters & Capak 2011. In addition to the spectrum of each source, `SpecPro` also provides the user with the ability to display thumbnail images of the source being inspected, a plot of available photometry with an accompanying SED fit, and the location and width of the extraction window. To aid in the identification of emission lines, `SpecPro` provides the predicted location of various emission and absorption features based on the input photometric redshift for the source. Source spectra were also inspected for contamination from overlapping spectra using an estimate supplied by aXe which is indicated atop the 1D spectrum. It should be noted that no attempt was made to model or subtract contamination from each spectrum, although emission lines from neighboring sources were identified using the photometric or spectroscopic redshift of the contaminating source and contamination from zeroth order spectra is indicated by the contamination estimate supplied by aXe. Any source which exhibited excessive contamination or had data quality issues (e.g. significantly incomplete spectrum due to the spectrum being dispersed off the edge of the detector or spectra which overlap with defective portions of the detector) were removed from the sample. These sources accounted for roughly 17% of all 4187 extracted spectra in the primary and secondary samples.

During inspection, any visible spectral features were roughly fit manually and subsequently fit via cross-correlation with spectral templates provided in the software to determine the redshift of the source. `SpecPro's` cross-correlation method is adapted from the cross-correlation routines originally written for the SDSS spectral reduction package, which follows the technique of Tonry & Davis 1979. When the automated cross-correlation failed, the redshift was determined manually by fitting the peaks of the template emission features to those observed in the grism spectrum. This was done for less than 5% of sources. The templates used for cross-correlation are taken from the VVDS (Le Fèvre et al. 2005) and PEGASE Fioc & Rocca-Volmerange 1997 templates. The emission lines most often used for identification were Hα/[NII]$\lambda\lambda$6550+6584 and [SII]$\lambda\lambda$6717+6731, Hβ and [OIII]$\lambda\lambda$4959+5007, and [OII]λ3727. The spectral resolution of the grism is such that the above sets and duplexes are not resolved, but it is enough to produce certain distinguishing profiles that aid in differentiating each from other strong lines (e.g. the asymmetric profile of [OIII]$\lambda\lambda$4959+5007.)

Upon inspection, the derived redshift of each source was assigned a quality flag based on the strength and number of the identified emission lines and the agreement with existing photometric redshift estimates. If a source was identified in multiple pointings and therefore assigned multiple redshifts, the higher quality redshift was always chosen. In the case where multiple redshifts of the same quality exist, the redshift of the source was taken to be the average of the individual redshifts. The quality scheme for the derived redshifts is as follows:

- 4.0: Multiple high S/N emission lines
- 3.0: Combination of high and low S/N emission lines.
- 2.5: Single high S/N emission line and redshift agrees with 68% confidence interval of photometric redshift
- 2.0: Single high S/N emission line and redshift does not agree with 68% confidence interval of photometric redshift

Examples of spectra correlating to each quality flag can be seen in Figure 3. While quality 3.0 and 4.0 redshifts are the most reliable, given the multiple emission lines identified, we show in §4.2 that sources assigned a quality of 2.0 or 2.5 demonstrate excellent agreement with prior spectroscopic redshift measurements.

4. RESULTS

4.1. *Catalog Properties*

Upon inspection and classification of the 2411 grism spectra in the primary sample, we have identified 608 sources with visible emission lines for which redshifts could be measured. Of these, 45 exhibited multiple high S/N emission lines (quality 4.0), 181 exhibited multiple emission lines with some low S/N emission lines (quality 3.0), 293 exhibited a single high S/N emission line whose redshift agrees with the 68% confidence interval of the CANDELS photometric redshift estimate (quality 2.5), and 89 exhibited a single high S/N emission line which does not agree with the 68% confidence interval of the photometric redshift (quality 2.0). In the secondary sample, we have identified 411 sources with visible emission lines for which redshifts could be measured. Of these, 35 exhibited multiple high S/N emission lines (quality 4.0), 167 exhibited multiple emission lines with some low S/N emission lines (quality 3.0), 157 exhibited a single high S/N emission line whose redshift agrees with the 68% confidence interval of the CANDELS photometric redshift estimate (quality 2.5), and 52 exhibited a single high S/N emission line which does not agree with

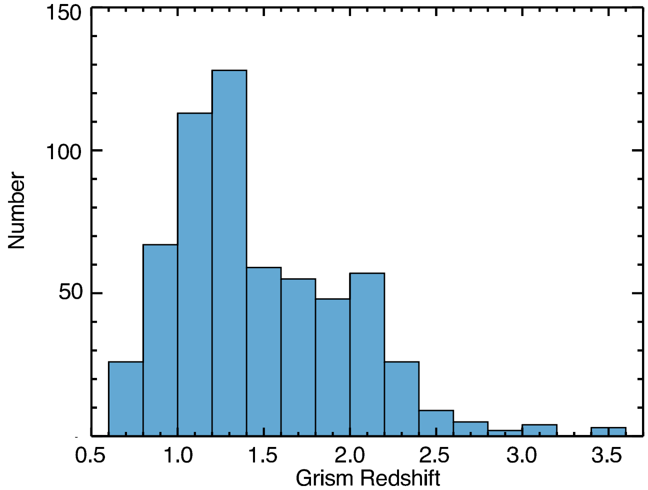

FIG. 5.— Distribution of the 608 new grism redshifts in GOODS-S. The redshfits span a range of $0.677 \leq z \leq 3.456$ and have a median redshift of $z = 1.282$. There are 234 sources with $z \geq 1.5$

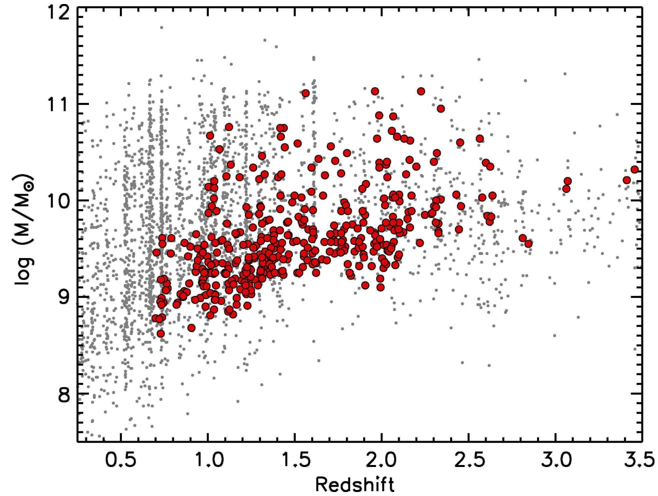

FIG. 6.— Mass distribution as a function of spectroscopic redshift for galaxies in the GOODS-S field. Galaxies with new grism redshifts from this work are shown as red circles, while galaxies with previously published spectroscopic redshifts are shown as grey points.

the 68% confidence interval of the photometric redshift (quality 2.0).

The final catalog contains 1019 grism redshifts for galaxies brighter than $H = 24$ in the GOODS-S field. Roughly 60% (608/1019) of the redshifts are new, in that these galaxies have no previously published spectroscopic redshift. The new redshifts span a range of $0.677 \leq z \leq 3.456$ and have a median redshift of $z = 1.282$. The catalog contains a total of 234 new redshifts for galaxies at $z \geq 1.5$. The spatial distribution of the 608 galaxies with new redshifts can be seen in Figure 4 and their redshift distribution is shown in Figure 5. In addition, the stellar mass distribution of these 608 galaxies is shown in Figure 6. Here masses are calculated by SED modeling using photometry from the Guo et al. (2013) catalog as described in Mobasher et al. (2014, in prep.). We find that galaxies with new grism redshifts in our catalog are, on average, three times less massive than their counterparts with literature redshifts at $z \sim 1-2$.

Over the magnitude range of our primary sample ($H < 24$), we find that our ability to successfully measure a redshift is not strongly dependent on the H-band magnitude of the source. Figure 7 shows the magnitude distribution of sources in our primary sample along with the redshift success rate in each magnitude bin (defined as the ratio of the number of sources with grism redshifts of quality ≥ 2.0 to the number of all sources in our initial sample in a given bin). Over the magnitude range $22 < H < 24$, our success rate ranges from 20 to 30%, showing only a mild decrease for our faintest sources. Also shown in Figure 7 is our success rate as a function of redshift. Here we find a steady decrease from 35% to 10% in the redshift range $2.0 < z < 2.75$. This is likely due to [OIII] and Hβ shifting beyond 1.7μm at $z = 2.4$ and 2.5, respectively, leaving [OII] as the single emission line visible in the G141 sensitivity window at $z > 2.5$.

We have investigated the nature of the sources for which a grism redshift could not be determined due to the lack of visible emission lines and find them to be a combination of bright, quiescent galaxies and faint star-forming systems. In Figure 8, we show the location of these galaxies on a UVJ diagram (Williams et al. 2009). This phase-space separates blue, star forming galaxies from redder systems that are heavily dust extinguished or passively evolving. For this analysis, rest-frame colors were determined with the EAZY code (Brammer et al. 2008) using the observed photometry from Guo et al. (2013) and the CANDELS photometric redshift catalog. Of the galaxies which lack visible emission lines, we find that 33.0% are dusty or quiescent ($U - V_{\rm rest} > 1.3$). This is nearly three times greater than the 12.4% of galaxies with measured grism redshifts that have similar rest-frame colors. The remaining 67.0% are blue, star-forming systems ($U - V_{\rm rest} < 1.3$) that are predominately faint (64.5% are fainter than $H \sim 23$; the same is true for only 23.7% of the passive/dusty population). We therefore conclude that objects which failed to yield a grism redshift are largely a combination of quiescent galaxies that lack emission lines and star-forming galaxies with emission lines fainter than the detection limit of the grism observations.

4.2. *Redshift Accuracy*

To evaluate the accuracy of our measured redshifts, we first examine the agreement of the new grism redshifts with the CANDELS photometric redshifts. This is shown in the left panel of Figure 9. We to quantify the accuracy of the catalog via the parameter σ_{NMAD}, defined as $1.48 \times median(|\Delta z|/(1 + z_{phot}))$. The grism redshifts show good agreement with the photometric redshifts, with $\sigma_{NMAD} = 0.0236$ and an OLF ($|\Delta z|/(1 + z_{phot}) \geq 0.15$) of 0.0150. These values are comparable to the accuracy of the photometric redshifts when compared against ground-based spectroscopic redshifts, so we may reasonably assume that the majority of this scatter is due to the error in the photometric redshifts. We believe many of the outliers in this evaluation are sources with SEDs contaminated by strong emission lines. A comparison to the work of Hsu et al. (2014), which takes into account intermediate-band *Subaru* photometry (Cardamone et al. 2010) and the contribution of emission lines in addition to the photometry presented in Guo et al. (2013), reduces the number of outliers in the sample from 9 to just 2.

To further assess the accuracy of the grism redshifts,

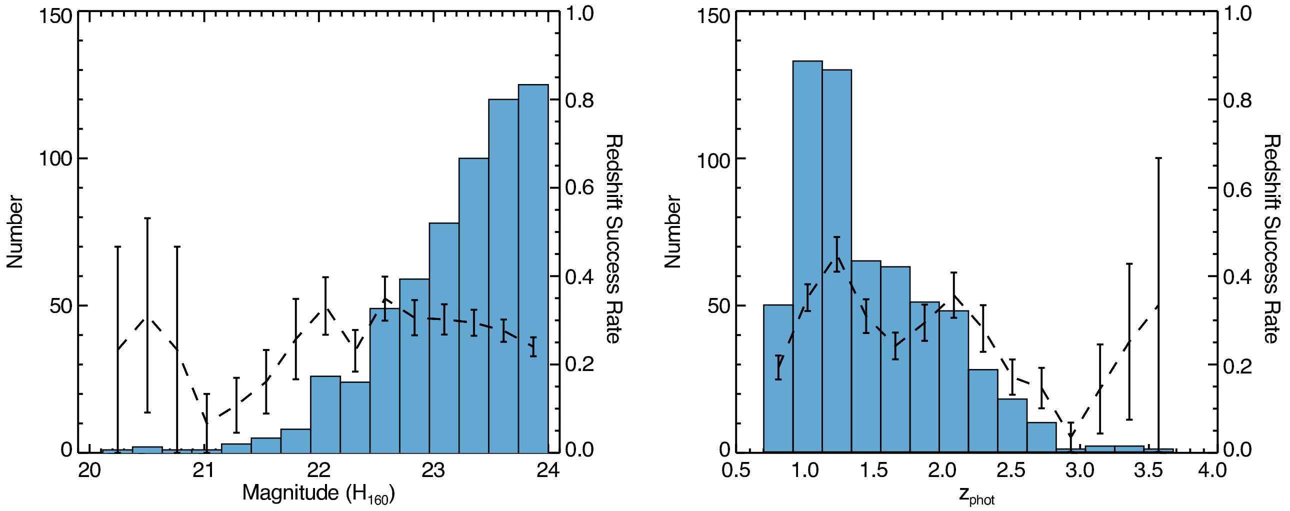

FIG. 7.— *(left)* Magnitude distribution of sources with new grism redshifts. The dashed line represents the redshift "success" rate in each bin with error bars given by number statistics based on the number of sources in that bin. *(right)* Redshift distribution of sources with new grism redshifts.

we examine the agreement of the secondary sample with the redshifts conained within the master spectroscopic catalog. Each extracted spectrum was inspected using the same methods employed for the primary sample; i.e., we used the photometric redshifts to aid in our redshift determination but had no knowledge of the published spectroscopic redshifts. This process resulted in 411 successful grism redshift determinations. A comparison of the grism and ground-based spectroscopic redshifts is shown on the right panel of Figure 9. This comparison yields a scatter of $\sigma_{NMAD} = 0.0028$ with an OLF of 0.0098. Compared to the work of Brammer et al. (2012), we find excellent agreement with the accuracy reported by the 3D-HST team ($\sigma_{NMAD} = 0.0035$).

As a further test of the accuracy of our catalog, we have compared our grism redshifts to those obtained by the WFC3 ERS program. Straughn et al. obtained 48 redshifts via their G102 and G141 observations, of which ten sources with the highest quality redshifts meet our magnitude and redshift selection criteria and received quality flags of 2.0 or higher in our inspection. We see excellent agreement between our results and those of Straughn et al., with a comparison in the manner described above giving a result of $\sigma_{NMAD} = 0.0016$.

We find that the scatter between the grism and ground-based spectroscopic redshifts is not significantly increased ($\Delta\sigma_{NMAD} \approx 0.0001$) for those sources whose redshifts were fit manually versus those fit via the built-in cross-correlation routines in `SpecPro`. We also find that the scatter does not vary significantly with quality flag, ranging from $\sigma_{NMAD} = 0.0026$ for quality 4 redshifts to $\sigma_{NMAD} = 0.0033$ for quality 2 redshifts. We therefore propose quality 2.0 as the minimum reliable quality for this redshift catalog. In addition, we find no correlation between scatter and the effective radius of the sources as defined in van der Wel et al. (2014).

4.3. *Redshift Catalog*

Starting with a sample of 4511 sources, we have obtained a total of 1019 grism redshifts for galaxies brighter than $H = 24$ in the GOODS-S field. Of these, 608 are new redshift measurements for galaxies in our primary

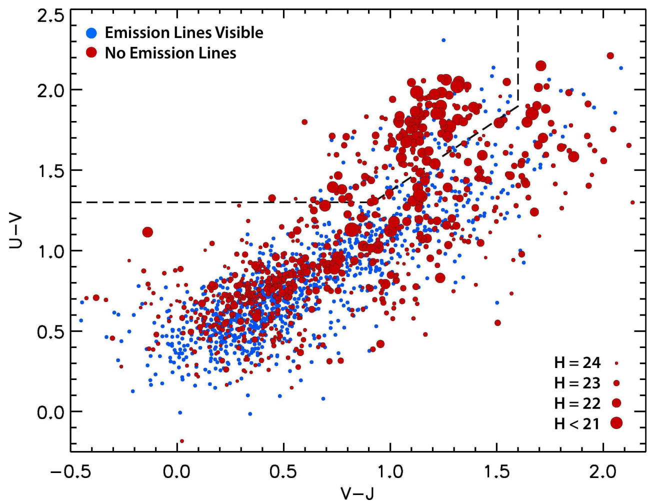

FIG. 8.— UVJ plot of rest-frame colors for all sources in both the primary and secondary samples. Blue points represent sources for which a grism redshift was successfully obtained and red sources represent sources for which a grism redshift was not obtained with point size scaled according to the source's H-band magnitude. The dashed line separates the star-forming "blue cloud" and the quiescent "red sequence". We find that sources without grism redshifts tend to be bright quiescent systems or faint star forming galaxies.

sample, which do not have previously published spectroscopic redshifts. The coordinates and redshifts of all 1019 galaxies are listed in Table 1. The details of the table columns are given below.

1. Source ID from Guo et al. (2013)
2. Right ascension (J2000)
3. Declination (J2000)
4. H-band magnitude (AB) from Guo et al. (2013)
5. Redshift derived from G141 grism spectrum
6. Redshift from Master Spectroscopic Catalog
7. Emission line(s) used for redshift determination
8. Redshift quality flag (see §3 for details)

4.4. *Newly Identified Galaxy Pair Candidates*

In this section, we highlight one of the potential uses for our redshift catalog, namely the identification of

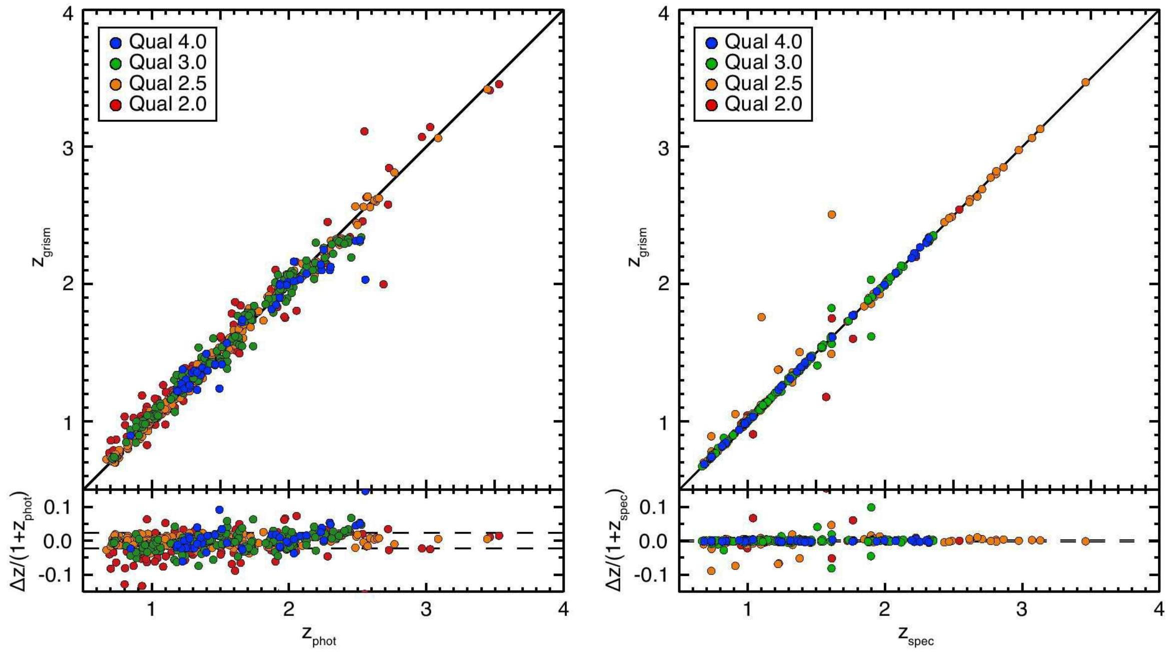

FIG. 9.— *(left)* Grism redshifts from this work versus CANDELS photometric redshifts. The solid line represents $z_{grism} = z_{phot}$, while the dashed lines represent $\sigma_{\rm NMAD} = 0.0236$. *(right)* Grism redshifts from this work versus ground-based spectroscopic redshifts, with $\sigma_{\rm NMAD} = 0.0028$.

close galaxy pairs at $z > 1$. Due to the slitless nature of the WFC3 grism, we can now dramatically increase the spectroscopic sampling of star forming galaxies at these redshifts. Even with a spectral resolution of $\delta v \sim 1000kms^{-1}$, the redshift accuracy of the G141 grism spectra ($\sigma_{\rm z}/(1+z) = 0.3\%$) is far better than typical photometric redshift errors (3%) and the accuracy of low-resolution prism spectroscopy (1.2%), which have been used in the past to study the merger rate and environments of galaxies at $z \sim 1$ and beyond i.e., Patel et al. 2011; Newman et al. 2012.

Combining the grism redshifts in our catalog with our master spectroscopic catalog, we have identified 20 galaxy pair candidates in GOODS-S with at least one member whose redshift comes from the new WFC3/G141 spectra. To identify galaxy pairs, we inspect the neighbors of each galaxy with a grism redshift of quality 2.0 or greater and define close companions as those that are 1) within a projected distance of 50 kpc, and 2) have a redshift difference of $\Delta z/(1 + z) < 0.03$, or roughly $\delta v \sim 1000kms^{-1}$ at $z > 1$. Based on these criteria, we find 20 galaxies with potential companions in the CANDELS/GOODS-S region. Five of the pairs are comprised of two galaxies with new grism redshifts and 15 are grism sources with companions that appear in our master spectroscopic catalog. The sample spans a redshift range of $0.787 \leq z \leq 2.33$, with four of the pairs identified at $z \sim 2$. This sample represents roughly a factor of two increase in the number of such pairs identified with the master spectroscopic catalog alone. On average, the new companions to sources with spectroscopic redshifts are nearly one magnitude fainter in the H-band, which highlights the ability of the grism to detect fainter objects than are usually seen via ground-based spectroscopy. In addition, the objects found in these pairs are approximately ten times less massive than objects typically observed in pair studies at this redshift (López-Sanjuan et al. 2013; Tasca et al. 2014) The coordinates and redshifts of the newly detected pair candidates are listed in Table 2.

5. SUMMARY

We have constructed a redshift catalog for galaxies in the CANDELS/GOODS-S field using *HST*/WFC3 G141 grism observations from the 3D-HST survey and WFC3 ERS program. The G141 spectra cover a wavelength range of $1.1 \leq \lambda \leq 1.7\mu m$, which allows for the detection of prominent emission lines over a wide redshift range, from $H\alpha$ at $z = 0.7$ to [OII] $\lambda3727$ at $z = 3.4$. Our catalog is H-band selected based on the CANDELS photometry catalog of Guo et al. (2013). Spectra were extracted for all GOODS-S sources which are brighter than $H = 24$ and have a photometric redshift $z_{phot} \geq 0.6$. Each spectrum was visually inspected, emission lines were identified with the aid of CANDELS photometric redshifts, and redshifts were measured via cross-correlation with empirical spectral templates. Derived redshifts were assigned a quality ranging from 4.0 for sources with multiple strong emission lines, to 2.0 for sources with a single visible emission line. The resulting catalog contains new grism redshifts for 608 galaxies which have no previously published spectroscopic redshift in the GOODS-S field. These redshifts span a range of $0.677 \leq z \leq 3.456$ and include 234 new redshifts for galaxies at $z \geq 1.5$. The catalog also contains grism redshifts for 411 galaxies which have existing redshifts in the literature.

We find good agreement between our grism-derived redshifts and existing photometric redshifts from CANDELS ($\sigma_{NMAD} = 0.0236$). We've also tested the accuracy of our redshifts by extracting and inspecting the spectra of GOODS-S sources with published spectro-

scopic redshifts. This analysis was done blind, with only the photometric redshift of each source known during the inspection. Here we find excellent agreement between our redshifts and the published values ($\sigma_{NMAD} = 0.0028$). This agreement holds even for redshifts measured with only a single emission line (quality 2.5 and 2.0 in the catalog).

Finally, we use our redshift catalog to identify 20 new galaxy pair candidates at $z = 1 - 2$. These were chosen to have a projected separation of 50 kpc and a velocity offset of $\delta v \sim 1000 kms^{-1}$. Included in this sample are four new pairs identified at $z \sim 2$.

This work is based on observations taken by the CANDELS Multi-Cycle Treasury Program (GO 12177) and the 3D-HST Treasury Program (GO 12328) with the NASA/ESA HST, which is operated by the Association of Universities for Research in Astronomy, Inc., under NASA contract NAS5-26555 and by the Spitzer Space Telescope, which is operated by the Jet Propulsion Laboratory, California Institute of Technology under a contract with NASA. We also acknowledge partial support from NSF 0808133 and HST-AR 12822.03-A.

TABLE 1
Grism Redshift Catalog of Sources in GOODS-S

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
36	03 32 24.52	-27 57 12.8	23.54	0.733	–	Hα	2.5
54	03 32 25.47	-27 57 05.7	23.95	1.805	–	[OIII]	2.0
55	03 32 25.42	-27 57 05.9	23.74	1.753	–	[OIII]	2.0
173	03 32 25.39	-27 56 33.9	22.97	0.683	0.684	Hα, [SIII]λ9532	3.0
180	03 32 25.15	-27 56 34.3	23.53	1.332	–	Hβ, [OIII], Hα	3.0
218	03 32 25.66	-27 56 28.5	22.87	1.112	–	Hα	2.0
244	03 32 25.18	-27 56 23.1	23.20	1.103	–	Hα	2.5
267	03 32 25.84	-27 56 23.2	22.67	1.087	–	Hα	2.5
287	03 32 24.08	-27 56 19.7	23.29	2.101	–	Hβ, [OIII]	4.0
304	03 32 24.59	-27 56 15.9	23.20	1.267	–	[OIII], Hα	4.0
371	03 32 22.01	-27 56 09.6	22.62	1.777	–	Hβ, [OIII]	3.0
394	03 32 27.39	-27 56 06.0	23.81	0.826	–	Hα	2.0
472	03 32 31.16	-27 55 57.2	23.20	0.836	0.841	Hα	2.5
482	03 32 24.84	-27 55 59.9	21.96	1.052	1.049	Hα	2.5
483	03 32 35.20	-27 55 55.8	22.93	0.997	–	Hα	2.5
489	03 32 21.92	-27 55 55.0	23.36	3.064	3.071	[OII]	2.5
494	03 32 26.12	-27 55 53.9	23.20	2.101	–	[OII], Hβ, [OIII]	4.0
513	03 32 28.46	-27 55 54.3	22.55	1.090	1.090	Hα	2.5
528	03 32 27.23	-27 55 59.8	19.86	1.096	1.089	Hα	2.0
540	03 32 26.45	-27 55 49.7	23.11	2.093	2.099	[OII], [OIII]	3.0
569	03 32 40.83	-27 55 46.7	23.23	3.393	1.221	[OII]	2.5
570	03 32 25.39	-27 55 46.5	23.67	1.091	–	Hα	2.5
630	03 32 34.56	-27 55 43.5	21.77	0.996	0.983	Hα	2.0
715	03 32 26.39	-27 55 32.4	22.97	1.733	–	[OIII]	2.5
720	03 32 40.08	-27 55 32.6	22.61	1.472	1.461	[OIII], Hα	3.0
722	03 32 23.15	-27 55 30.1	23.89	1.145	–	Hα, [SII]	2.5
726	03 32 23.13	-27 55 33.4	21.40	1.147	1.146	Hα	2.5
744	03 32 38.12	-27 55 30.8	21.79	1.023	–	Hα	2.5
750	03 32 37.20	-27 55 28.3	23.57	2.543	2.543	[OII]	2.0
773	03 32 20.49	-27 55 28.2	22.56	1.378	–	Hα	2.5
780	03 32 20.37	-27 55 27.1	22.34	1.537	–	Hα, [SII]	3.0
797	03 32 25.27	-27 55 24.1	21.74	1.021	1.017	Hα	2.5
834	03 32 21.83	-27 55 20.2	22.00	1.381	–	Hα, [SII]	3.0
843	03 32 24.42	-27 55 21.0	22.90	1.268	–	Hα, [SII]	2.5
854	03 32 37.66	-27 55 16.8	23.71	1.114	–	Hα	2.5
888	03 32 31.55	-27 55 17.3	22.51	1.142	1.134	Hα	2.5
898	03 32 44.35	-27 55 13.5	21.85	0.956	0.953	Hα	2.5
912	03 32 42.90	-27 55 11.9	22.70	1.352	–	[OIII], Hα, [SII]	4.0
946	03 32 34.95	-27 55 11.1	21.04	0.843	0.841	Hα, [SII]	4.0
957	03 32 23.27	-27 55 07.0	23.73	1.546	–	[OIII], Hα	3.0
965	03 32 44.34	-27 55 06.4	23.59	1.307	1.305	Hα, [SII]	3.0
1025	03 32 31.63	-27 55 01.5	23.06	1.085	1.089	Hα, [SII]	3.0
1028	03 32 38.54	-27 55 00.6	23.84	1.210	–	Hα	2.5
1031	03 32 39.11	-27 55 00.7	23.16	2.132	2.126	[OII], Hβ, [OIII]	3.0
1056	03 32 46.54	-27 54 58.3	23.82	1.432	1.425	[OIII], Hα	3.0
1065	03 32 22.12	-27 55 01.6	22.25	1.163	1.160	Hα	2.5
1140	03 32 30.46	-27 54 53.9	23.01	1.348	–	[OIII]	2.5
1143	03 32 23.78	-27 54 53.0	23.36	1.389	–	Hβ, [OIII], Hα	4.0
1152	03 32 28.77	-27 54 53.3	23.27	1.127	1.136	Hα	2.5
1216	03 32 37.31	-27 54 48.2	23.20	1.339	1.341	Hβ, [OIII], Hα, [SII]	3.0
1237	03 32 27.72	-27 54 51.7	21.57	0.964	0.966	Hα	2.5
1244	03 32 46.89	-27 54 49.0	22.49	1.557	1.552	Hβ, [OIII]	3.0
1253	03 32 35.55	-27 54 47.0	22.02	1.302	–	Hα, [SII]	3.0
1256	03 32 25.15	-27 54 50.1	20.12	1.094	1.090	Hα	2.5
1321	03 32 41.19	-27 54 38.0	23.13	0.961	–	Hα	2.5
1333	03 32 31.65	-27 54 37.0	23.79	0.987	–	Hα	2.5
1365	03 32 23.84	-27 54 34.1	24.00	1.407	–	[OIII], Hα	3.0
1379	03 32 52.41	-27 54 34.5	22.45	1.115	–	Hα	2.5
1400	03 32 35.25	-27 54 32.5	22.88	1.414	–	Hβ, [OIII], Hα, [SII]	4.0
1404	03 32 42.69	-27 54 34.3	21.92	1.100	1.104	Hα, [SII]	3.0
1438	03 32 23.48	-27 54 28.8	23.74	2.324	–	Hβ, [OIII]	3.0
1500	03 32 46.78	-27 54 25.1	22.97	1.472	1.457	Hα	2.0
1542	03 32 38.97	-27 54 22.8	23.87	2.101	–	[OII]	2.5
1569	03 32 34.61	-27 54 20.2	23.42	1.150	–	Hα, [SII]	2.5
1603	03 32 58.30	-27 54 18.4	23.24	1.047	–	Hα	2.0
1650	03 32 35.20	-27 54 16.4	22.54	0.693	0.679	Hα	2.5
1656	03 32 53.17	-27 54 15.4	23.46	0.864	–	Hα, [SII]	2.5
1676	03 32 30.93	-27 54 13.2	23.74	3.112	–	[OII]	2.0
1695	03 32 57.88	-27 54 11.7	23.50	1.047	1.045	Hα	2.5
1701	03 32 45.25	-27 54 14.8	21.89	1.384	1.378	[OIII], Hα, [SII]	3.0
1702	03 32 42.39	-27 54 13.4	22.56	1.187	–	[OIII], Hα	3.0
1708	03 32 57.90	-27 54 12.6	22.69	1.050	–	Hα, [SII]	2.5
1740	03 32 22.17	-27 54 09.7	23.13	1.406	–	Hβ, [OIII], Hα, [SII]	3.0
1820	03 32 20.86	-27 54 05.0	22.79	0.976	0.968	Hα, [SII]	3.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
1845	03 32 31.92	-27 54 03.1	23.76	2.489	2.487	[OII]	2.5
1846	03 32 49.98	-27 54 05.3	22.65	0.971	–	Hα	2.0
1847	03 32 56.46	-27 54 03.8	23.21	1.663	–	[OIII]	2.5
1848	03 32 34.42	-27 54 05.6	21.25	1.076	1.088	Hα	2.5
1855	03 32 19.29	-27 54 03.3	22.67	0.969	0.964	Hα	2.5
1862	03 32 21.89	-27 54 03.1	22.16	1.010	1.001	Hα	2.5
1875	03 32 33.40	-27 54 01.5	23.56	1.334	–	Hβ, [OIII], Hα, [SII]	4.0
1907	03 32 45.74	-27 54 01.2	22.18	1.405	–	[OIII], Hα, [SII]	2.5
1938	03 32 19.26	-27 54 01.9	20.83	1.122	–	Hα	2.5
1942	03 32 19.82	-27 53 58.3	23.21	1.832	–	[OIII]	2.0
1977	03 32 30.73	-27 53 56.5	23.53	1.784	–	Hβ, [OIII]	2.0
1981	03 33 00.48	-27 53 55.1	23.65	1.596	–	[OIII]	2.5
1993	03 32 17.16	-27 53 54.8	23.64	1.353	–	[OIII], Hα, [SII]	4.0
2029	03 32 22.52	-27 53 53.7	22.65	0.969	0.967	Hα	2.5
2042	03 32 17.35	-27 53 52.8	22.68	1.361	1.359	Hβ, [OIII], Hα, [SII]	4.0
2096	03 32 44.57	-27 53 50.2	23.69	1.090	–	Hα	2.5
2100	03 32 37.51	-27 53 50.6	23.30	1.009	–	Hα, [SII]	2.5
2192	03 32 17.65	-27 53 47.6	21.36	1.259	–	[OIII], Hα	3.0
2206	03 32 18.30	-27 53 43.9	23.91	1.219	–	Hα	2.5
2231	03 32 30.79	-27 53 44.5	22.98	1.784	–	Hβ, [OIII]	3.0
2265	03 32 40.80	-27 53 43.5	21.46	0.977	0.977	Hα, [SII]	4.0
2278	03 32 55.87	-27 53 40.7	22.87	1.962	–	Hβ, [OIII]	3.0
2285	03 32 47.23	-27 53 39.8	23.37	2.161	–	[OIII]	2.0
2296	03 32 38.14	-27 53 39.9	23.14	2.814	2.811	[OII]	2.5
2311	03 32 34.18	-27 53 39.0	23.88	2.108	–	Hβ, [OIII]	2.5
2320	03 32 20.95	-27 53 39.2	22.52	1.437	–	[OIII]	2.0
2349	03 32 47.20	-27 53 36.5	23.49	1.791	–	Hβ, [OIII]	3.0
2359	03 32 49.26	-27 53 37.3	22.66	1.183	–	Hα, [SII]	3.0
2361	03 32 50.68	-27 53 37.1	22.47	1.786	–	Hβ, [OIII]	3.0
2362	03 32 28.80	-27 53 35.9	23.55	0.984	–	Hα	2.5
2364	03 32 53.12	-27 53 36.1	23.88	2.579	–	[OII]	2.0
2413	03 32 33.36	-27 53 33.4	23.24	0.683	0.679	Hα, [SIII]λ9532	3.0
2444	03 32 30.07	-27 53 32.0	22.74	1.220	–	Hα	2.5
2454	03 32 28.45	-27 53 31.0	23.65	0.989	–	Hα	2.5
2480	03 32 41.49	-27 53 31.0	23.95	1.276	–	[OIII], Hα	2.5
2486	03 32 20.11	-27 53 29.7	23.37	1.187	–	Hα	2.0
2508	03 32 46.21	-27 53 29.0	22.89	1.386	1.385	Hα	2.0
2513	03 32 22.85	-27 53 30.3	23.26	1.882	–	Hβ, [OIII]	3.0
2520	03 32 30.64	-27 53 27.6	23.83	1.729	–	[OIII]	2.5
2524	03 32 43.77	-27 53 27.5	23.61	1.458	–	[OIII], Hα	3.0
2526	03 32 43.66	-27 53 28.0	23.46	1.465	–	[OIII], Hα	3.0
2551	03 32 56.79	-27 53 29.3	22.09	1.423	–	Hα, [SII]	3.0
2583	03 32 29.21	-27 53 29.0	22.42	1.033	–	Hα	2.5
2590	03 32 48.37	-27 53 25.9	23.02	0.797	–	Hα	2.5
2614	03 32 47.31	-27 53 24.1	22.57	1.295	–	Hα	2.0
2674	03 32 34.60	-27 53 24.4	21.36	1.105	1.107	Hα, [SII]	3.0
2697	03 32 57.98	-27 53 22.4	21.87	1.032	1.035	Hα, [SII]	3.0
2724	03 32 53.64	-27 53 18.9	23.29	0.745	–	Hα	2.5
2744	03 32 50.55	-27 53 18.1	22.54	1.614	–	[OIII]	2.5
2755	03 32 22.87	-27 53 17.1	23.69	1.752	–	Hβ, [OIII]	3.0
2766	03 32 45.17	-27 53 19.1	22.47	1.783	–	[OIII]	2.0
2844	03 32 42.56	-27 53 13.5	23.32	1.312	1.296	[OIII], Hα	3.0
2864	03 32 32.14	-27 53 11.9	23.28	0.981	–	Hα	2.5
2887	03 32 54.60	-27 53 11.0	23.76	1.612	–	[OIII]	2.5
2889	03 32 50.94	-27 53 11.9	23.09	0.942	–	Hα	2.5
2903	03 32 58.43	-27 53 10.8	22.90	1.026	1.034	Hα	2.5
2909	03 32 33.34	-27 53 12.8	21.75	0.697	0.679	Hα	2.5
2923	03 32 58.70	-27 53 11.0	23.46	1.896	–	Hβ, [OIII]	3.0
2954	03 32 48.70	-27 53 08.6	23.20	1.975	–	Hβ, [OIII]	3.0
2976	03 32 18.26	-27 53 09.8	21.93	1.127	–	Hα	2.5
3022	03 32 42.74	-27 53 05.6	23.57	0.858	–	Hα	2.5
3052	03 32 57.95	-27 53 03.9	23.77	1.366	–	Hβ, [OIII], Hα	4.0
3081	03 32 43.01	-27 53 04.5	23.30	0.879	–	Hα	2.5
3107	03 32 43.68	-27 53 02.3	23.48	1.308	–	Hα, [SII]	3.0
3146	03 32 24.98	-27 53 01.8	23.28	1.120	–	Hα	2.5
3200	03 32 40.45	-27 52 59.2	23.00	1.795	–	[OIII]	2.5
3251	03 32 58.82	-27 52 56.0	24.00	1.905	–	[OIII]	2.5
3279	03 32 24.06	-27 52 57.2	21.94	1.132	–	Hα	2.5
3281	03 32 36.43	-27 52 55.1	23.92	1.624	–	Hβ, [OIII]	3.0
3315	03 32 38.01	-27 52 53.9	23.53	1.006	–	Hα	2.5
3344	03 32 20.86	-27 52 55.2	22.35	0.830	–	Hα	2.5
3347	03 32 21.08	-27 52 52.6	23.22	2.801	2.807	[OII]	2.5
3380	03 32 41.84	-27 52 53.8	23.28	1.095	1.102	Hα	2.5
3389	03 32 31.41	-27 52 51.8	23.78	1.770	–	Hβ, [OIII]	3.0
3432	03 32 19.05	-27 52 48.3	23.98	1.039	–	Hα, [SII]	2.5

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
3458	03 32 38.07	-27 52 48.6	22.87	1.038	–	Hα	2.5
3488	03 32 45.05	-27 52 46.6	23.08	1.466	1.460	Hβ, [OIII], Hα, [SII]	4.0
3492	03 32 23.95	-27 52 47.3	22.87	1.137	1.126	Hα	2.5
3511	03 32 55.07	-27 52 48.0	21.79	0.840	0.848	Hα	2.5
3561	03 32 32.84	-27 52 45.1	23.30	1.406	–	[OIII], Hα	2.0
3570	03 32 17.15	-27 52 51.4	21.92	0.993	–	Hα	2.5
3606	03 32 18.83	-27 52 43.1	23.15	0.987	–	Hα	2.5
3619	03 32 21.86	-27 52 43.1	23.33	0.722	–	Hα	2.5
3625	03 32 57.26	-27 52 41.9	23.74	3.071	–	[OII]	2.0
3639	03 32 47.56	-27 52 43.2	21.42	1.255	1.249	[OIII], Hα, [SII]	4.0
3689	03 32 18.78	-27 52 42.4	22.48	0.979	0.987	Hα	2.0
3690	03 32 46.99	-27 52 39.1	23.90	2.249	–	Hβ, [OIII]	2.5
3694	03 32 31.49	-27 52 41.4	22.24	0.985	–	Hα, [SII]	2.5
3707	03 32 17.13	-27 52 38.8	23.37	1.099	–	Hα	2.5
3715	03 32 31.38	-27 52 40.1	22.29	1.107	–	Hα, [SII]	2.5
3817	03 32 49.94	-27 52 35.8	23.95	1.117	–	Hα, [SII]	2.5
3876	03 32 41.96	-27 52 32.3	23.66	1.122	–	Hα	2.5
3891	03 32 15.79	-27 52 32.0	23.35	1.540	–	Hβ, [OIII], Hα	3.0
3895	03 32 48.66	-27 52 31.5	23.97	1.515	–	[OIII]	2.0
3944	03 32 50.73	-27 52 29.9	23.78	1.238	–	Hα	2.0
3964	03 32 39.87	-27 52 28.7	23.71	2.125	–	[OII], Hβ, [OIII]	4.0
4001	03 32 44.73	-27 52 29.8	23.05	0.996	–	Hα	2.5
4035	03 32 46.78	-27 52 29.7	22.24	1.236	1.227	Hα	2.5
4037	03 32 45.54	-27 52 28.1	22.85	1.105	–	Hα	2.0
4061	03 32 32.15	-27 52 27.4	22.95	1.568	–	Hβ, [OIII]	4.0
4075	03 32 28.97	-27 52 26.0	23.28	1.891	–	Hβ, [OIII]	3.0
4103	03 32 54.43	-27 52 25.9	23.62	1.350	–	Hα	2.5
4127	03 32 34.29	-27 52 25.6	23.57	1.166	–	Hα	2.5
4187	03 32 39.64	-27 52 26.2	22.02	1.091	1.096	Hα, [SII]	3.0
4210	03 32 18.25	-27 52 25.0	21.49	0.739	0.740	Hα, [SII], [SIII]λ9069,λ9532	4.0
4216	03 32 17.61	-27 52 28.4	20.11	1.094	1.098	Hα	2.5
4246	03 32 28.84	-27 52 20.1	23.96	2.034	–	Hβ, [OIII]	3.0
4259	03 32 43.55	-27 52 20.9	23.35	1.369	–	Hβ, [OIII], Hα, [SII]	3.0
4263	03 32 37.53	-27 52 22.7	22.90	0.769	–	Hα	2.5
4275	03 32 43.09	-27 52 20.4	22.82	2.103	–	[OIII]	2.0
4279	03 32 53.55	-27 52 19.8	23.50	1.024	–	Hα	2.0
4297	03 32 45.70	-27 52 19.6	22.70	1.337	–	Hβ, Hα	2.0
4314	03 32 45.91	-27 52 19.5	21.98	0.989	0.976	Hα, [SII]	3.0
4326	03 32 39.37	-27 52 18.2	23.57	2.340	–	[OII], [OIII]	3.0
4331	03 32 17.26	-27 52 19.5	22.46	2.565	–	[OII]	2.5
4351	03 32 45.88	-27 52 22.5	21.83	0.986	–	Hα, [SII]	3.0
4376	03 32 17.16	-27 52 20.8	20.71	1.098	1.097	Hα, [SII]	3.0
4388	03 32 45.51	-27 52 15.9	23.96	1.906	–	[OIII]	2.5
4406	03 32 51.07	-27 52 14.5	23.98	1.157	–	Hα	2.5
4460	03 32 38.98	-27 52 14.3	22.47	1.380	–	Hα, [SII]	2.5
4464	03 32 35.89	-27 52 13.3	23.87	2.560	–	[OII]	2.5
4488	03 32 25.48	-27 52 11.6	23.40	1.326	–	[OIII]	2.0
4505	03 32 25.38	-27 52 11.2	23.48	1.320	–	[OIII]	2.5
4526	03 32 37.76	-27 52 12.3	21.44	1.610	1.610	Hβ, [OIII]	3.0
4580	03 32 54.08	-27 52 09.0	22.65	2.600	–	[OII]	2.5
4586	03 32 39.98	-27 52 08.2	23.69	1.415	1.414	Hβ, [OIII], Hα	4.0
4612	03 32 52.84	-27 52 07.8	22.24	0.687	0.684	Hα, [SIII]λ9532	4.0
4644	03 32 39.15	-27 52 06.5	23.74	1.074	–	Hα	2.5
4656	03 32 25.53	-27 52 09.0	22.31	0.962	–	Hα	2.5
4701	03 32 36.74	-27 52 06.8	21.74	0.804	0.784	Hα, [SII]	3.0
4801	03 32 43.63	-27 52 00.6	23.72	0.697	–	Hα	2.5
4825	03 32 42.98	-27 51 59.6	23.69	0.887	–	Hα	2.5
4834	03 32 42.95	-27 52 00.7	23.01	1.708	–	[OIII]	2.5
4862	03 32 21.33	-27 52 05.1	21.16	1.120	1.101	Hα	2.5
4876	03 32 16.37	-27 52 01.2	22.38	1.971	1.972	Hβ, [OIII]	3.0
4901	03 32 42.72	-27 51 59.2	21.76	1.121	1.123	Hα, [SII]	3.0
4932	03 32 33.15	-27 51 55.7	23.67	1.943	–	Hβ, [OIII]	3.0
4945	03 32 18.25	-27 51 55.3	23.30	0.768	0.762	Hs, [SII]	3.0
4992	03 32 55.07	-27 51 53.2	23.80	2.163	–	[OIII], [OII]	4.0
5022	03 32 43.06	-27 51 55.2	22.69	1.381	–	Hα	2.5
5032	03 32 55.06	-27 51 51.8	23.56	2.812	–	[OII]	2.5
5059	03 32 45.03	-27 51 51.8	23.99	1.398	–	[OIII], Hα	2.5
5067	03 32 51.27	-27 51 52.0	22.78	0.983	0.980	Hα	2.0
5112	03 32 46.05	-27 51 48.3	23.89	1.579	–	Hβ, [OIII]	3.0
5137	03 32 47.89	-27 51 47.6	23.87	1.228	–	[OIII], Hα	4.0
5155	03 32 40.82	-27 51 49.6	23.28	1.301	–	[OIII], Hα	3.0
5157	03 32 21.44	-27 51 51.9	21.53	0.834	0.833	Hα	2.5
5158	03 32 33.66	-27 51 48.4	23.34	2.128	2.134	Hβ, [OIII]	3.0
5186	03 32 50.17	-27 51 45.6	23.89	1.843	–	[OIII]	2.0
5190	03 32 16.13	-27 51 46.5	23.73	1.797	–	[OIII]	2.5

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
5197	03 32 26.82	-27 51 46.0	23.78	2.011	–	Hβ, [OIII]	3.0
5222	03 32 29.74	-27 51 47.1	22.67	1.314	1.315	Hβ, [OIII], Hα	3.0
5317	03 32 23.38	-27 51 42.2	22.79	0.903	–	Hα	2.5
5339	03 32 54.68	-27 51 40.5	23.29	2.341	–	[OII], [OIII]	2.0
5349	03 32 52.44	-27 51 39.2	23.94	1.456	–	Hβ, Hα	3.0
5365	03 32 28.60	-27 51 40.1	23.39	2.562	–	[OII]	2.5
5370	03 32 37.48	-27 51 38.2	23.98	0.693	–	Hα, [SIII]λ9069,λ9532	3.0
5399	03 32 32.50	-27 51 40.8	22.22	0.999	0.997	Hα, [SII]	4.0
5471	03 32 53.46	-27 51 35.4	22.96	1.427	–	Hα	2.5
5487	03 32 46.49	-27 51 34.1	23.91	1.623	–	[OIII]	2.5
5492	03 32 41.79	-27 51 35.2	22.59	1.637	–	[OIII]	2.5
5499	03 32 31.43	-27 51 37.4	22.14	1.377	1.382	Hα, [SII]	3.0
5537	03 32 52.44	-27 51 32.7	23.81	1.702	–	Hβ, [OIII]	2.0
5608	03 32 29.31	-27 51 29.7	23.62	2.801	2.809	[OII]	2.5
5624	03 32 45.62	-27 51 33.0	21.87	0.859	0.858	Hα, [SII]	3.0
5641	03 32 36.20	-27 51 29.9	22.79	1.614	–	[OIII]	2.0
5693	03 32 49.86	-27 51 29.0	21.71	0.765	0.767	Hα, [SII]	3.0
5727	03 32 43.34	-27 51 25.1	23.69	1.657	–	[OIII]	2.5
5728	03 32 21.40	-27 51 26.2	23.29	2.033	–	[OII], Hβ, [OIII]	4.0
5843	03 32 41.01	-27 51 22.5	22.64	1.995	1.996	[OII], Hβ, [OIII]	4.0
5868	03 32 37.43	-27 51 21.2	23.84	3.063	–	[OII]	2.5
5890	03 32 37.17	-27 51 28.0	20.31	1.013	–	Hα	2.5
5893	03 32 46.83	-27 51 21.1	22.77	1.758	1.101	[OIII]	2.5
5901	03 32 53.74	-27 51 19.0	23.97	1.736	–	Hβ, [OIII]	3.0
5914	03 32 44.66	-27 51 19.2	23.25	1.130	–	Hα, [SII]	3.0
5948	03 32 13.43	-27 51 18.3	23.92	1.227	–	Hα	2.0
5950	03 32 39.11	-27 51 18.7	22.67	1.004	–	Hα	2.5
5983	03 32 13.48	-27 51 19.3	22.46	1.227	1.226	[OIII], Hα, [SII]	4.0
6002	03 32 39.30	-27 51 17.1	22.93	0.687	0.690	Hα	2.5
6047	03 32 48.95	-27 51 15.6	23.15	1.379	–	Hα	2.5
6059	03 32 39.37	-27 51 15.4	22.61	1.296	–	Hα	2.5
6099	03 32 45.20	-27 51 12.7	22.43	1.216	1.245	Hα, [SII]	3.0
6129	03 32 51.40	-27 51 10.8	23.86	2.450	2.433	[OII]	2.5
6138	03 32 52.93	-27 51 12.4	22.30	0.804	–	Hα	2.5
6159	03 32 39.52	-27 51 12.0	22.52	1.128	–	Hα	2.0
6195	03 32 42.08	-27 51 09.3	22.72	0.977	–	Hα	2.5
6223	03 32 41.65	-27 51 08.7	23.44	0.967	–	Hα	2.5
6227	03 32 50.82	-27 51 07.6	22.89	0.886	–	Hα	2.0
6254	03 32 45.99	-27 51 08.2	23.33	1.282	–	[OIII]	2.5
6278	03 32 14.42	-27 51 10.7	21.23	1.534	1.544	[OIII], Hα	3.0
6300	03 32 49.99	-27 51 05.1	22.96	2.207	2.213	[OII], Hβ, [OIII]	4.0
6337	03 32 52.18	-27 51 04.2	23.90	1.994	–	Hβ, [OIII]	3.0
6390	03 32 47.17	-27 51 06.1	20.75	1.218	1.224	Hα	2.5
6423	03 32 16.98	-27 51 02.4	22.68	0.993	0.991	Hα	2.5
6477	03 32 43.73	-27 51 00.0	23.31	1.388	–	Hα, [OIII]	3.0
6517	03 32 25.19	-27 51 00.0	21.87	0.844	0.841	Hα, [SII]	2.5
6692	03 32 49.67	-27 50 53.0	22.71	0.907	–	Hα, [SII]	3.0
6713	03 32 55.15	-27 50 50.0	23.96	1.036	–	Hα	2.0
6714	03 32 24.84	-27 50 52.5	22.32	1.320	1.329	Hα	2.5
6749	03 32 50.58	-27 50 50.8	23.15	0.764	–	Hα	2.5
6752	03 32 18.33	-27 50 55.1	20.82	1.544	1.536	[OIII]	2.5
6808	03 32 24.84	-27 50 50.1	22.89	2.026	–	Hβ, [OIII]	3.0
6895	03 32 22.79	-27 50 44.8	23.46	1.553	–	[OIII]	2.5
6991	03 32 53.22	-27 50 41.6	23.60	1.466	–	[OIII], Hα	3.0
6997	03 32 51.56	-27 50 44.6	21.66	0.991	0.980	Hα	2.5
7011	03 32 25.10	-27 50 43.2	22.05	1.046	1.044	Hα	2.0
7051	03 32 46.43	-27 50 41.2	23.46	1.387	–	Hα	2.0
7057	03 32 46.52	-27 50 39.4	23.70	1.238	–	[OIII], Hα, [SII]	4.0
7071	03 32 32.92	-27 50 40.7	22.32	2.031	–	[OII], Hβ, [OIII]	4.0
7129	03 32 46.45	-27 50 36.6	23.75	2.003	–	Hβ, [OIII]	4.0
7143	03 32 30.20	-27 50 37.3	23.32	2.341	2.320	[OII]	2.5
7145	03 32 54.65	-27 50 37.2	22.70	1.416	–	[OIII], Hα	3.0
7153	03 32 43.12	-27 50 37.9	22.31	0.740	0.733	Hα, [SII], [SIII]λ9532	3.0
7172	03 32 46.54	-27 50 35.5	23.32	2.011	–	Hβ, [OIII]	3.0
7183	03 32 27.71	-27 50 40.7	20.44	1.097	1.097	Hα, [SII]	3.0
7185	03 32 31.21	-27 50 34.4	23.89	1.933	–	[OIII]	2.5
7191	03 32 13.29	-27 50 37.9	22.40	1.292	–	Hα	2.5
7260	03 32 29.94	-27 50 32.0	23.31	1.385	1.389	[OIII], Hα, [SII]	3.0
7270	03 32 49.09	-27 50 32.7	23.54	0.869	–	Hα	2.5
7273	03 32 11.96	-27 50 33.8	21.96	0.999	0.981	Hα	2.5
7371	03 32 23.97	-27 50 30.9	23.36	1.553	–	[OIII], Hα	3.0
7415	03 32 13.03	-27 50 28.2	23.77	2.069	–	[OIII]	2.0
7436	03 32 27.85	-27 50 29.5	22.69	1.761	–	[OIII]	2.0
7450	03 32 17.62	-27 50 26.6	23.35	1.099	–	Hα	2.0
7485	03 32 34.84	-27 50 25.3	22.87	0.988	–	Hα, [SII]	3.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
7489	03 32 44.85	-27 50 28.2	21.47	0.780	0.783	Hα	2.5
7490	03 32 28.57	-27 50 33.1	21.92	2.319	2.320	[OII]	2.0
7502	03 32 17.31	-27 50 25.0	23.00	1.563	1.612	Hβ, [OIII]	3.0
7559	03 32 34.78	-27 50 24.7	22.33	0.974	0.980	Hα, [SII]	3.0
7564	03 32 38.12	-27 50 22.0	23.96	1.573	–	Hβ, [OIII]	3.0
7603	03 32 29.86	-27 50 21.6	23.52	1.015	–	Hα	2.5
7634	03 32 52.07	-27 50 20.6	23.57	1.223	–	Hα, [SII]	2.5
7668	03 32 12.49	-27 50 20.5	22.80	1.309	–	Hα	2.5
7728	03 32 37.92	-27 50 18.2	22.91	1.231	–	Hα	2.5
7743	03 32 45.50	-27 50 18.2	22.50	1.176	1.572	Hα	2.0
7792	03 32 30.54	-27 50 18.9	22.04	1.004	–	Hα	2.5
7837	03 32 25.86	-27 50 19.7	20.96	1.079	1.095	Hα	2.5
7863	03 32 52.43	-27 50 13.1	22.49	1.124	1.123	Hα	2.0
7880	03 32 51.58	-27 50 17.6	20.82	0.854	0.853	Hα, [SII]	3.0
7907	03 32 37.37	-27 50 13.6	22.39	1.395	1.389	[OIII], Hα, [SII]	4.0
7930	03 32 37.07	-27 50 11.4	23.94	2.027	–	[OII], [OIII]	3.0
7935	03 32 39.74	-27 50 12.5	23.01	2.609	–	[OII]	2.5
7996	03 32 12.77	-27 50 12.8	21.79	0.990	0.964	Hα, [SII]	2.0
8038	03 32 24.95	-27 50 08.0	23.10	1.040	1.036	Hα	2.5
8089	03 32 11.44	-27 50 06.6	21.88	1.339	–	Hβ, [OIII], Hα	3.0
8094	03 32 11.55	-27 50 07.4	23.32	1.318	–	[OIII], Hα	3.0
8122	03 32 44.95	-27 50 05.3	22.88	1.303	–	[OIII], Hα	4.0
8124	03 32 24.70	-27 50 05.2	23.94	1.382	1.382	[OIII], Hα	3.0
8206	03 32 34.46	-27 50 04.9	22.66	1.987	–	Hβ, [OIII]	3.0
8283	03 32 40.73	-27 50 00.6	23.73	1.777	–	Hβ, [OIII]	3.0
8321	03 32 11.37	-27 50 03.4	22.12	1.443	–	[OIII]	2.0
8339	03 32 40.84	-27 50 00.0	23.42	3.456	–	[OII]	2.0
8368	03 32 35.03	-27 49 57.6	23.99	1.899	–	Hβ, [OIII]	3.0
8394	03 32 24.57	-27 49 58.5	23.78	1.344	–	[OIII], Hα	2.5
8398	03 32 52.35	-27 50 01.2	21.11	0.858	0.853	Hα, [SII]	3.0
8402	03 32 35.08	-27 49 58.4	22.54	1.048	1.049	Hα	2.0
8462	03 32 11.24	-27 49 54.9	23.64	1.166	–	Hα	2.5
8470	03 32 49.51	-27 49 56.9	23.11	1.229	1.227	Hα	2.5
8472	03 32 27.41	-27 49 54.6	23.52	1.295	–	[OIII], Hα	3.0
8494	03 32 37.77	-27 49 55.3	23.05	0.900	–	Hα	2.5
8525	03 32 12.75	-27 49 54.1	23.15	1.244	–	Hα	2.5
8591	03 32 45.82	-27 49 51.7	22.98	1.230	–	Hα	2.5
8606	03 32 24.95	-27 49 52.5	23.59	1.954	–	[OIII]	2.5
8633	03 32 42.21	-27 49 53.8	23.16	1.369	1.377	Hα	2.5
8649	03 32 35.12	-27 49 49.2	23.56	2.322	2.314	[OII], Hβ, [OIII]	4.0
8721	03 32 22.38	-27 49 49.0	22.93	1.153	1.158	Hα	2.0
8730	03 32 44.67	-27 49 46.7	23.59	1.522	–	Hα	2.5
8759	03 32 48.20	-27 49 45.5	23.61	1.462	–	[OIII], Hα, [SII]	2.5
8760	03 32 51.72	-27 49 51.0	20.61	0.737	0.736	Hα	3.0
8799	03 32 29.64	-27 49 45.4	22.96	1.204	–	Hα	2.5
8834	03 32 48.69	-27 49 46.2	22.01	1.226	1.220	Hα	2.0
8863	03 32 37.70	-27 49 41.9	23.73	1.460	–	[OIII], Hα	3.0
8868	03 32 18.12	-27 49 41.9	23.55	2.029	–	[OII], [OIII]	3.0
8946	03 32 21.57	-27 49 41.6	22.21	1.103	1.110	Hα	2.5
8970	03 32 34.16	-27 49 39.5	23.93	1.871	–	Hβ, [OIII]	3.0
9026	03 32 44.45	-27 49 40.2	21.45	1.016	1.016	Hα, [SII]	3.0
9027	03 32 11.11	-27 49 38.4	22.93	1.364	–	[OIII], Hα	3.0
9105	03 32 37.23	-27 49 35.3	23.28	2.314	–	[OII]	2.5
9123	03 32 51.61	-27 49 33.8	23.87	1.785	–	Hβ, [OIII]	3.0
9221	03 32 18.70	-27 49 31.8	23.51	0.956	–	Hα	2.5
9242	03 32 48.56	-27 49 34.2	21.92	1.115	1.120	Hα	3.0
9245	03 32 22.53	-27 49 32.5	22.60	2.059	–	[OIII]	2.5
9278	03 32 33.07	-27 49 29.9	23.98	2.445	–	[OII]	2.5
9282	03 32 36.34	-27 49 33.1	22.11	1.417	–	[OIII]	2.5
9290	03 32 44.69	-27 49 30.7	22.74	1.974	–	[OIII]	2.5
9325	03 32 48.65	-27 49 30.9	22.60	1.499	–	Hα	2.5
9331	03 32 21.40	-27 49 29.5	23.83	2.070	–	Hβ, [OIII]	3.0
9383	03 32 15.21	-27 49 26.3	23.89	1.823	–	[OIII]	2.5
9392	03 32 21.15	-27 49 25.7	23.81	2.057	–	Hβ, [OIII]	2.5
9493	03 32 26.54	-27 49 25.0	22.91	1.470	1.468	Hβ, [OIII], Hα	3.0
9560	03 32 12.79	-27 49 27.6	19.87	0.733	0.732	Hα	2.5
9606	03 32 34.24	-27 49 19.2	23.94	0.927	–	Hα	2.5
9618	03 32 23.18	-27 49 21.4	23.23	1.103	–	Hα	2.5
9662	03 32 41.21	-27 49 18.4	22.99	0.930	–	Hα	2.5
9709	03 32 37.05	-27 49 17.3	23.64	1.139	1.145	Hα	2.0
9728	03 32 32.78	-27 49 17.2	23.87	1.816	–	Hβ, [OIII]	4.0
9765	03 32 17.82	-27 49 15.9	23.19	1.127	–	Hα, [SII]	2.5
9769	03 32 18.68	-27 49 19.9	21.23	1.048	1.038	Hα	2.0
9770	03 32 14.15	-27 49 15.6	22.78	0.956	–	Hα, [SII]	3.0
9884	03 32 12.38	-27 49 12.6	22.27	1.046	1.048	Hα, [SII]	3.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
9950	03 32 15.22	-27 49 10.9	23.13	1.005	–	Hα	2.0
9951	03 32 44.35	-27 49 11.2	23.05	1.986	–	[OII], Hβ, [OIII]	3.0
10057	03 32 50.81	-27 49 07.8	22.40	0.680	0.681	Hα, [SIII]λ9532	3.0
10090	03 32 34.09	-27 49 11.7	22.19	1.855	1.899	[OIII]	2.5
10274	03 32 22.25	-27 49 01.2	22.89	1.110	–	Hα	2.0
10281	03 32 49.31	-27 48 59.9	23.23	1.605	–	Hβ, [OIII]	3.0
10300	03 32 45.21	-27 48 57.9	23.40	1.456	1.463	[OIII], Hα	3.0
10326	03 32 22.40	-27 48 57.9	23.36	1.384	1.383	[OIII], Hα, [SII]	3.0
10338	03 32 48.81	-27 48 57.6	22.89	1.988	2.001	[OII], Hβ, [OIII]	3.0
10348	03 32 16.02	-27 48 59.7	22.12	1.411	1.413	Hα, [SII]	3.0
10372	03 32 21.42	-27 49 01.8	21.27	0.753	0.736	Hα, [SII]	3.0
10404	03 32 51.72	-27 48 55.0	23.51	1.367	–	[OIII], Hα, [SII]	4.0
10442	03 32 17.19	-27 48 53.5	23.54	1.721	–	[OIII], Hβ	4.0
10446	03 32 21.94	-27 48 55.6	22.73	2.013	2.007	[OIII]	2.5
10487	03 32 32.47	-27 48 52.1	23.89	2.845	–	[OII]	2.0
10510	03 32 26.48	-27 48 51.5	23.14	0.764	–	Hα	2.5
10650	03 32 35.97	-27 48 50.3	21.12	1.311	1.307	Hβ, [OIII], Hα	3.0
10665	03 32 46.51	-27 48 46.3	23.16	0.835	0.833	Hα	2.5
10767	03 32 43.04	-27 48 45.0	22.29	1.768	1.771	Hβ, [OIII]	3.0
10769	03 32 50.37	-27 48 43.1	23.64	2.344	2.351	[OII], Hβ, [OIII]	3.0
10790	03 32 44.97	-27 48 44.0	22.75	1.768	–	[OIII]	2.0
10878	03 32 09.26	-27 48 39.3	23.31	1.215	–	[OIII]	2.5
10916	03 32 19.78	-27 48 39.2	22.70	1.359	1.357	Hβ, [OIII]	3.0
10951	03 32 39.43	-27 48 38.9	22.60	0.737	0.735	Hα, [SII]	3.0
10987	03 32 22.44	-27 48 34.9	23.98	2.327	–	Hβ, [OIII]	3.0
11032	03 32 34.82	-27 48 35.4	22.18	1.247	1.245	Hα, [SII]	3.0
11122	03 32 09.37	-27 48 34.1	22.07	1.222	–	Hα	2.5
11156	03 32 18.51	-27 48 30.6	23.29	1.008	–	Hα	2.5
11160	03 32 25.42	-27 48 30.2	22.45	2.014	–	[OII], Hβ, [OIII]	4.0
11203	03 32 32.09	-27 48 28.3	23.74	1.958	–	Hβ, [OIII]	3.0
11218	03 32 25.44	-27 48 28.6	23.50	2.020	–	[OII], Hβ, [OIII]	4.0
11398	03 32 20.81	-27 48 22.4	23.16	1.731	1.736	Hβ, [OIII]	3.0
11527	03 32 27.72	-27 48 18.5	23.89	2.093	–	Hβ, [OIII]	3.0
11532	03 32 10.73	-27 48 19.3	22.07	1.556	–	Hβ, [OIII]	3.0
11539	03 32 10.53	-27 48 17.5	23.75	1.575	–	Hβ, [OIII]	3.0
11592	03 32 12.39	-27 48 16.5	23.50	2.822	2.812	[OII]	2.5
11620	03 32 35.70	-27 48 15.4	24.00	0.906	–	Hα	2.5
11664	03 32 22.40	-27 48 15.4	23.28	2.164	–	[OIII]	2.5
11674	03 32 14.92	-27 48 15.6	22.67	0.705	–	Hα, [SIII]λ9532	2.5
11686	03 32 33.98	-27 48 14.6	23.12	1.381	1.382	Hα	2.5
11833	03 32 17.62	-27 48 11.8	21.36	0.890	0.735	Hα	2.5
11886	03 32 12.28	-27 48 07.8	23.38	0.969	–	Hα	2.5
11923	03 32 22.10	-27 48 06.6	23.50	1.776	1.774	Hβ, [OIII]	4.0
11959	03 32 07.41	-27 48 05.9	23.45	1.765	–	[OIII]	2.5
11977	03 32 13.00	-27 48 05.3	23.45	1.195	–	Hα	2.5
12002	03 32 35.93	-27 48 04.2	23.62	1.806	–	[OIII]	2.0
12091	03 32 23.56	-27 48 02.5	23.47	1.406	1.508	Hα, [SII]	3.0
12145	03 32 14.91	-27 48 00.3	22.66	0.962	–	Hα, [SII]	2.5
12184	03 32 07.49	-27 48 00.7	22.64	0.860	0.864	Hα	2.5
12207	03 32 13.61	-27 47 59.3	23.17	1.558	–	[OIII]	2.0
12216	03 32 18.93	-27 47 58.7	23.03	1.084	–	Hα, [SII]	3.0
12268	03 32 36.37	-27 47 58.5	23.94	1.313	–	Hα	2.5
12304	03 32 18.45	-27 47 57.1	22.64	1.085	1.079	Hα, [SII]	3.0
12451	03 32 37.83	-27 47 56.4	22.96	1.997	–	[OIII]	2.0
12473	03 32 28.76	-27 47 55.4	21.82	1.381	1.383	Hα	2.5
12487	03 32 36.28	-27 47 55.3	23.51	0.706	–	Hα	2.0
12511	03 32 12.23	-27 47 50.4	23.33	1.862	–	[OIII]	2.5
12516	03 32 06.80	-27 47 51.2	22.81	1.910	–	Hβ, [OIII]	2.5
12522	03 32 08.23	-27 47 55.4	21.21	0.846	0.841	Hα	2.5
12532	03 32 14.09	-27 47 51.1	22.89	1.005	0.999	Hα	2.5
12550	03 32 20.43	-27 47 49.0	23.61	2.048	–	Hβ, [OIII]	3.0
12574	03 32 40.04	-27 47 51.7	23.71	0.995	–	Hα	2.5
12611	03 32 08.20	-27 47 52.1	20.71	0.853	0.840	Hα	2.0
12665	03 32 05.66	-27 47 49.0	22.16	0.895	–	Hα, [SII]	4.0
12670	03 32 35.64	-27 47 48.8	23.02	1.768	1.765	Hβ, [OIII]	3.0
12713	03 32 05.47	-27 47 46.8	22.11	0.899	0.897	Hα, [SII]	3.0
12716	03 32 11.12	-27 47 48.0	22.78	1.186	–	Hα	2.5
12751	03 32 38.11	-27 47 49.7	22.18	1.904	1.921	[OIII]	2.5
12770	03 32 33.74	-27 47 44.2	23.26	1.905	1.909	Hβ, [OIII]	3.0
12775	03 32 14.64	-27 47 44.4	23.78	1.164	–	Hα	2.5
12787	03 32 26.21	-27 47 42.9	23.84	1.414	–	[OIII], Hα	4.0
12839	03 32 40.19	-27 47 42.6	23.94	1.685	–	[OIII]	2.5
12841	03 32 30.66	-27 47 42.2	23.21	1.304	–	Hα	2.5
12858	03 32 36.38	-27 47 47.1	22.33	1.601	1.767	[OIII]	2.0
12864	03 32 10.93	-27 47 45.9	22.34	1.225	–	[OIII], Hα	4.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
12880	03 32 38.71	-27 47 44.8	23.17	1.491	–	Hβ, [OIII], Hα	4.0
12887	03 32 42.28	-27 47 46.0	20.70	1.041	0.997	Hα	2.0
12988	03 32 13.96	-27 47 37.8	23.64	1.845	–	Hβ, [OIII]	3.0
12997	03 32 37.40	-27 47 41.6	22.73	1.098	–	Hα	2.0
13097	03 32 37.61	-27 47 44.0	21.35	1.097	1.097	Hα	2.5
13159	03 32 46.52	-27 47 35.8	22.56	0.710	0.706	Hα	2.5
13165	03 32 21.69	-27 47 34.1	23.81	2.155	–	[OIII]	2.5
13172	03 32 25.19	-27 47 35.3	23.02	1.017	–	Hα	2.0
13242	03 32 41.11	-27 47 34.5	23.51	0.987	–	Hα	2.5
13263	03 32 42.73	-27 47 33.8	22.77	1.435	1.427	Hα	2.5
13271	03 32 36.30	-27 47 32.6	23.97	1.847	–	Hβ, [OIII]	4.0
13295	03 32 10.48	-27 47 32.4	23.26	2.064	–	[OII], Hβ, [OIII]	3.0
13322	03 32 34.86	-27 47 30.7	23.96	1.314	–	Hα	2.5
13337	03 32 44.19	-27 47 33.4	21.12	0.740	0.737	Hα, [SII], [SIII]λ9069,λ9532	4.0
13381	03 32 35.79	-27 47 34.7	22.17	1.223	1.223	[OIII], Hα, [SII]	3.0
13432	03 32 17.52	-27 47 28.0	22.83	0.866	–	Hα	2.0
13444	03 32 34.67	-27 47 27.9	23.50	1.427	1.417	Hβ, [OIII], Hα, [SII]	4.0
13472	03 32 06.15	-27 47 25.8	23.70	1.360	–	Hα	2.5
13552	03 32 38.49	-27 47 25.3	23.35	1.612	–	Hβ, [OIII]	3.0
13583	03 32 11.65	-27 47 23.8	23.72	1.968	–	Hβ, [OIII]	3.0
13601	03 32 06.43	-27 47 28.7	20.18	1.024	1.022	Hα	2.0
13607	03 32 44.35	-27 47 23.7	22.74	0.962	0.953	Hα	2.0
13620	03 32 21.75	-27 47 24.6	22.06	0.996	1.000	Hα, [SII]	3.0
13674	03 32 10.41	-27 47 22.7	22.65	1.355	–	Hα	2.5
13680	03 32 05.08	-27 47 20.5	23.81	1.212	–	Hα, [SII]	3.0
13788	03 32 07.05	-27 47 19.4	22.86	1.895	–	Hβ, [OIII]	3.0
13817	03 32 34.63	-27 47 20.8	23.44	1.313	–	Hβ, [OIII], Hα	3.0
13837	03 32 25.03	-27 47 18.1	22.89	1.355	1.357	Hα	2.0
13859	03 32 34.81	-27 47 21.9	22.54	1.332	1.318	[OIII], Hα, [SII]	3.0
13942	03 32 14.23	-27 47 21.4	21.17	1.067	–	Hα, [SII]	3.0
13966	03 32 26.29	-27 47 17.5	21.65	0.992	0.995	Hα, [SII]	3.0
13995	03 32 39.38	-27 47 14.2	23.90	1.097	–	Hα, [SII]	3.0
14042	03 32 35.82	-27 47 18.6	22.46	1.906	1.906	Hβ, [OIII]	3.0
14064	03 32 41.85	-27 47 21.8	23.71	1.318	–	[OIII], Hα	3.0
14099	03 32 46.09	-27 47 13.8	22.13	1.104	–	Hα	2.5
14106	03 32 10.66	-27 47 12.3	23.78	1.553	–	[OIII]	2.5
14114	03 32 28.30	-27 47 11.5	23.92	2.220	–	Hβ, [OIII]	3.0
14207	03 32 33.45	-27 47 12.3	23.06	1.299	–	Hα, [SII]	3.0
14222	03 32 31.56	-27 47 11.1	23.56	0.974	–	Hα	2.0
14267	03 32 38.62	-27 47 11.4	23.07	1.142	1.135	Hα	2.5
14288	03 32 43.47	-27 47 12.8	23.26	1.263	–	[OIII], Hα, [SII]	2.0
14329	03 32 13.56	-27 47 07.6	23.45	2.622	–	[OII]	2.5
14341	03 32 23.44	-27 47 09.0	22.38	1.421	1.423	Hβ, [OIII], Hα, [SII]	3.0
14384	03 32 14.88	-27 47 05.1	23.86	1.355	–	Hβ, [OIII]	3.0
14400	03 32 17.03	-27 47 09.2	21.36	0.762	0.763	Hα	2.5
14410	03 32 05.66	-27 47 05.6	23.14	1.157	–	Hα, [SII]	3.0
14458	03 32 18.23	-27 47 08.9	22.17	1.503	1.379	[OIII]	2.5
14505	03 32 17.71	-27 47 02.9	23.44	1.613	1.607	Hβ, [OIII]	3.0
14515	03 32 18.60	-27 47 05.0	22.36	1.382	1.379	Hα	2.5
14582	03 32 16.45	-27 47 02.3	22.66	1.223	1.217	Hα, [SII]	3.0
14601	03 32 16.25	-27 47 03.1	22.88	1.220	1.219	Hα	2.5
14602	03 32 14.66	-27 47 02.6	22.55	1.674	–	[OIII]	2.5
14637	03 32 10.57	-27 47 06.1	21.48	1.041	1.045	Hα	2.5
14638	03 32 42.37	-27 47 07.6	21.46	1.311	–	Hα	2.5
14650	03 32 14.12	-27 46 59.7	23.97	1.043	–	Hα	2.5
14692	03 32 09.91	-27 46 59.4	22.98	1.053	–	Hα, [SII]	3.0
14704	03 32 14.93	-27 46 59.7	23.10	1.727	–	Hβ, [OIII]	3.0
14707	03 32 28.42	-27 47 00.1	22.98	1.889	–	[OIII]	2.5
14781	03 32 07.99	-27 46 57.2	23.54	2.617	2.619	[OII]	2.5
14817	03 32 36.43	-27 46 58.3	23.08	0.841	–	Hα	2.5
14826	03 32 32.43	-27 46 56.4	23.66	1.436	–	Hα	2.5
14831	03 32 06.21	-27 46 56.1	22.78	1.169	1.173	Hα	2.5
14867	03 32 42.77	-27 46 59.0	22.71	1.123	1.119	Hα, [SII]	3.0
14878	03 32 11.58	-27 46 59.1	21.19	0.818	0.814	Hα, [SII]	4.0
14897	03 32 36.18	-27 46 57.2	23.75	1.332	–	Hβ, [OIII]	3.0
14919	03 32 45.68	-27 46 55.1	23.06	1.293	–	Hα	2.5
14946	03 32 38.96	-27 46 56.3	23.62	1.407	1.415	[OIII], Hα, [SII]	3.0
14949	03 32 21.34	-27 46 55.0	22.97	1.946	1.940	Hβ, [OIII]	4.0
14956	03 32 32.45	-27 46 54.0	22.63	1.435	1.438	Hβ, [OIII], Hα, [SII]	3.0
15018	03 32 18.25	-27 46 51.9	23.67	1.238	–	[OIII], Hα, [SII]	4.0
15025	03 32 36.44	-27 46 55.0	22.99	0.888	–	Hα	2.5
15028	03 32 19.59	-27 46 53.0	22.53	0.738	–	Hα	2.5
15066	03 32 40.96	-27 46 55.0	22.82	0.769	–	Hα	2.0
15076	03 32 47.27	-27 46 50.1	23.68	0.737	–	Hα	2.5
15114	03 32 21.69	-27 46 50.5	22.63	1.025	1.018	Hα, [SII]	3.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
15122	03 32 39.81	-27 46 53.5	22.08	1.101	–	Hα	2.5
15211	03 32 10.80	-27 46 47.5	23.21	1.180	–	Hα	2.5
15216	03 32 30.83	-27 46 48.5	22.78	1.173	1.173	Hα, [SII]	3.0
15222	03 32 18.58	-27 46 48.7	21.94	0.740	0.741	Hα	2.5
15237	03 32 31.32	-27 46 46.8	23.72	2.125	2.134	[OII], [OIII]	3.0
15263	03 32 30.91	-27 46 49.5	22.03	1.174	1.173	Hα	2.5
15293	03 32 37.08	-27 46 46.9	23.62	1.837	1.849	[OIII]	2.5
15297	03 32 43.68	-27 46 46.3	23.63	2.479	2.468	[OII]	2.5
15336	03 32 42.98	-27 46 49.9	21.86	1.038	1.036	Hα, [SII]	3.0
15397	03 32 09.23	-27 46 43.4	22.99	1.900	–	Hβ, [OIII]	3.0
15430	03 32 09.68	-27 46 42.5	23.77	2.354	2.353	[OII], [OIII]	3.0
15431	03 32 20.41	-27 46 41.6	23.79	1.230	1.227	[OIII], Hα	3.0
15501	03 32 37.72	-27 46 42.6	23.76	1.305	1.307	[OIII], Hα, [SII]	3.0
15518	03 32 34.67	-27 46 44.5	22.99	1.536	–	[OIII]	2.5
15523	03 32 11.93	-27 46 44.6	21.47	1.225	1.221	Hα	2.5
15570	03 32 23.82	-27 46 39.3	22.88	1.224	–	Hα	2.0
15586	03 32 12.86	-27 46 40.9	23.25	1.791	–	Hβ, [OIII]	3.0
15614	03 32 35.73	-27 46 39.0	23.87	2.067	–	Hβ, [OIII]	3.0
15704	03 32 41.51	-27 46 40.2	22.96	1.087	–	Hα	2.5
15753	03 32 35.46	-27 46 37.0	22.96	1.093	1.086	Hα, [SII]	3.0
15766	03 32 44.00	-27 46 33.9	24.00	1.547	–	Hβ, [OIII]	3.0
15769	03 32 35.38	-27 46 39.3	22.71	1.824	–	[OIII]	2.5
15775	03 32 34.85	-27 46 40.4	21.69	1.098	1.099	Hα, [SII]	3.0
15787	03 32 14.01	-27 46 34.2	21.81	0.837	0.837	Hα	2.5
15863	03 32 32.73	-27 46 29.9	23.80	1.310	1.309	[OIII], Hα	3.0
15870	03 32 15.80	-27 46 30.4	22.35	1.026	1.023	Hα	2.5
15892	03 32 43.97	-27 46 32.5	23.54	1.603	–	Hβ, [OIII]	3.0
15898	03 32 44.61	-27 46 32.1	22.33	1.422	1.426	[OIII], Hα, [SII]	3.0
15901	03 32 46.34	-27 46 32.0	22.64	1.219	1.220	[OIII], Hα	3.0
15955	03 32 11.77	-27 46 28.1	23.24	1.605	–	[OIII]	2.5
15959	03 32 09.94	-27 46 29.3	22.62	1.021	–	Hα	2.5
15967	03 32 08.88	-27 46 29.0	22.20	1.038	1.032	Hα, [SII]	3.0
15991	03 32 12.82	-27 46 27.5	23.82	1.033	–	Hα	2.5
16018	03 32 28.86	-27 46 28.4	23.52	1.868	–	Hβ, [OIII]	2.0
16048	03 32 16.12	-27 46 27.6	22.25	1.045	1.033	Hα	2.0
16073	03 32 21.21	-27 46 25.9	22.90	1.224	1.221	[OIII], Hα	3.0
16085	03 32 36.66	-27 46 31.0	21.48	0.998	0.999	Hα	2.0
16101	03 32 38.24	-27 46 30.1	23.02	1.219	1.216	Hα	2.0
16113	03 32 24.13	-27 46 25.1	23.90	1.014	–	Hα	2.5
16122	03 32 20.73	-27 46 24.4	23.60	1.271	–	[OIII], Hα, [SII]	4.0
16123	03 32 11.79	-27 46 24.4	22.97	1.043	–	Hα, [SII]	3.0
16132	03 32 34.60	-27 46 24.7	23.51	1.900	–	Hβ, [OIII]	4.0
16139	03 32 29.06	-27 46 28.5	22.23	2.210	2.227	[OII], Hβ, [OIII]	4.0
16209	03 32 15.81	-27 46 22.3	23.58	1.324	–	Hα, [SII]	3.0
16255	03 32 18.21	-27 46 21.5	22.41	1.433	1.435	Hα	2.5
16268	03 32 11.57	-27 46 22.9	21.54	1.215	1.221	Hα	2.5
16274	03 32 31.45	-27 46 23.1	21.35	2.197	2.225	[OIII]	2.0
16275	03 32 24.31	-27 46 21.8	23.29	1.016	–	Hα	2.5
16320	03 32 05.54	-27 46 18.8	23.70	1.119	–	Hα	2.5
16358	03 32 11.18	-27 46 19.8	22.67	1.517	–	[OIII]	2.5
16377	03 32 18.57	-27 46 19.0	22.74	1.433	1.436	Hα, [SII]	3.0
16396	03 32 22.99	-27 46 18.1	23.74	1.555	–	[OIII]	2.5
16406	03 32 17.10	-27 46 19.0	23.92	2.285	–	[OIII]	2.5
16440	03 32 12.22	-27 46 20.6	20.82	1.033	1.033	Hα	2.5
16474	03 32 24.60	-27 46 20.2	21.45	1.225	1.221	Hα	2.0
16490	03 32 31.58	-27 46 15.1	23.58	3.411	–	[OII]	2.0
16548	03 32 35.08	-27 46 15.7	22.43	1.321	1.316	Hα, [SII]	3.0
16579	03 32 48.25	-27 46 13.8	23.35	2.691	2.708	[OII]	2.5
16586	03 32 11.26	-27 46 14.5	22.69	2.193	–	Hβ, [OIII]	3.0
16593	03 32 28.98	-27 46 23.5	20.66	0.779	0.737	Hα	2.5
16600	03 32 30.71	-27 46 17.1	21.25	1.312	1.307	Hα	2.0
16601	03 32 27.24	-27 46 12.0	23.93	1.891	–	Hβ, [OIII]	3.0
16604	03 32 17.53	-27 46 13.6	22.33	1.619	1.610	Hβ, [OIII]	3.0
16617	03 32 25.42	-27 46 17.0	20.97	0.900	0.896	Hα, [SII]	3.0
16629	03 32 37.07	-27 46 17.1	22.71	2.224	2.213	[OII], Hβ, [OIII]	4.0
16658	03 32 31.04	-27 46 10.2	23.96	1.125	–	Hα	2.0
16697	03 32 11.52	-27 46 13.4	22.24	0.904	1.039	Hα, [OII]	2.0
16714	03 32 23.49	-27 46 12.2	22.88	1.026	–	Hα	2.5
16718	03 32 18.48	-27 46 09.3	23.12	0.734	–	Hα, [SIII]λ9532	3.0
16719	03 32 38.09	-27 46 13.8	22.06	1.000	–	Hα	2.5
16732	03 32 36.54	-27 46 12.3	23.14	1.852	–	Hβ, [OIII]	3.0
16754	03 32 19.79	-27 46 10.0	22.15	1.220	1.221	Hα, [SII]	3.0
16767	03 32 14.36	-27 46 06.9	23.56	0.699	–	Hα	2.5
16813	03 32 14.17	-27 46 05.8	22.78	0.972	0.965	Hα, [SII]	3.0
16841	03 32 46.92	-27 46 04.8	23.77	2.851	2.865	[OII]	2.5

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
16844	03 32 10.89	-27 46 05.3	22.97	2.302	–	Hβ, [OIII]	3.0
16848	03 32 14.00	-27 46 05.1	23.52	0.727	–	Hα, [SIII]λ9532	3.0
16865	03 32 28.07	-27 46 06.0	22.35	1.113	1.109	Hα	2.5
16881	03 32 26.17	-27 46 03.5	23.48	1.220	1.221	Hα, [SII]	3.0
16897	03 32 12.60	-27 46 05.0	23.29	1.365	1.378	Hα	2.5
16905	03 32 15.74	-27 46 04.3	22.19	1.532	1.537	Hα	2.5
16936	03 32 25.99	-27 46 04.1	22.97	1.003	–	Hα, [SII]	3.0
16937	03 32 08.24	-27 46 02.5	23.34	1.084	–	Hα	2.5
16958	03 32 31.38	-27 46 04.3	23.07	2.089	–	Hβ, [OIII]	3.0
16970	03 32 26.82	-27 46 01.8	23.67	2.074	–	[OII], Hβ, [OIII]	4.0
16985	03 32 22.54	-27 46 03.7	22.77	1.727	1.727	[OIII]	2.0
17006	03 32 24.15	-27 46 00.2	22.86	0.893	0.893	Hα, [SII]	3.0
17027	03 32 36.91	-27 46 02.3	23.56	2.308	2.321	[OII], Hβ, [OIII]	3.0
17069	03 32 32.54	-27 45 59.8	22.78	0.969	–	Hα	2.0
17071	03 32 06.98	-27 45 59.9	22.37	1.327	–	Hα	2.5
17073	03 32 09.45	-27 45 58.4	23.47	2.318	–	Hβ, [OIII]	3.0
17151	03 32 09.14	-27 45 56.9	23.17	2.331	–	[OIII]	2.5
17165	03 32 36.32	-27 46 00.0	22.30	0.899	0.895	Hα, [SII]	3.0
17172	03 32 35.46	-27 45 56.2	23.72	2.318	2.325	[OII], Hβ, [OIII]	3.0
17213	03 32 21.23	-27 45 54.8	23.40	1.223	1.224	[OIII], Hα, [SII]	3.0
17214	03 32 37.29	-27 45 57.8	22.43	1.099	1.096	Hα	2.5
17221	03 32 21.31	-27 45 54.6	23.61	1.222	1.223	[OIII], Hα	3.0
17233	03 32 25.66	-27 45 55.5	22.78	1.032	1.040	Hα, [SII]	3.0
17235	03 32 05.45	-27 45 54.0	23.09	1.160	–	Hα, [SII]	3.0
17244	03 32 22.70	-27 45 54.6	22.90	0.846	–	Hα, [SII]	3.0
17251	03 32 48.67	-27 45 53.9	22.95	1.305	–	Hα	2.5
17259	03 32 06.40	-27 45 54.7	21.74	1.332	1.329	Hα	2.5
17265	03 32 04.72	-27 45 54.9	21.92	1.076	1.079	Hα	2.5
17290	03 32 14.99	-27 45 53.4	22.92	1.235	–	[OIII], Hα, [SII]	4.0
17297	03 32 14.95	-27 45 54.4	22.80	1.230	–	Hα, [SII]	3.0
17316	03 32 43.48	-27 45 56.4	21.32	1.219	1.220	Hα	2.0
17376	03 32 12.20	-27 45 54.3	21.34	1.033	1.038	Hα	2.5
17386	03 32 23.15	-27 45 54.6	21.31	1.226	1.223	Hα	2.5
17415	03 32 21.39	-27 45 50.5	23.64	1.916	–	Hβ, [OIII]	2.5
17422	03 32 16.84	-27 45 51.0	22.80	1.032	1.018	Hα	2.5
17472	03 32 27.39	-27 45 49.5	22.48	0.724	0.727	Hα	2.5
17482	03 32 06.84	-27 45 50.2	21.27	0.848	0.846	Hα	2.5
17488	03 32 20.17	-27 45 49.3	23.20	1.614	1.611	Hβ, [OIII]	3.0
17500	03 32 08.42	-27 45 46.8	23.50	1.609	–	[OIII]	2.5
17509	03 32 35.79	-27 45 49.0	22.70	0.749	0.738	Hα	2.5
17528	03 32 22.24	-27 45 50.3	21.84	0.730	0.726	Hα, [SII]	3.0
17593	03 32 17.75	-27 45 47.6	21.60	0.736	0.735	Hα	2.0
17594	03 32 13.58	-27 45 43.7	23.99	0.721	–	Hα	2.5
17605	03 32 22.63	-27 45 46.7	22.15	0.830	0.840	Hα	2.5
17608	03 32 13.44	-27 45 43.4	23.56	0.843	–	Hα, [SII]	3.0
17612	03 32 10.77	-27 45 43.8	23.93	0.729	–	Hα	2.5
17617	03 32 08.36	-27 45 42.8	23.76	1.222	–	Hα, [SII]	2.5
17652	03 32 10.94	-27 45 44.5	22.25	1.033	1.039	Hα, [SII]	4.0
17655	03 32 28.59	-27 45 42.0	23.58	1.824	1.611	Hβ, [OIII]	3.0
17698	03 32 36.40	-27 45 40.6	23.29	0.996	–	Hα, [SII]	3.0
17705	03 32 26.73	-27 45 39.9	23.42	2.010	2.006	Hβ, [OIII]	3.0
17757	03 32 07.48	-27 45 38.4	23.76	2.631	–	[OII]	2.0
17824	03 32 41.34	-27 45 38.2	21.80	1.540	1.539	Hβ, [OIII], Hα	3.0
17843	03 32 12.93	-27 45 38.6	22.30	1.053	–	Hα	2.0
17849	03 32 13.93	-27 45 37.2	22.10	0.844	0.841	Hα, [SII]	3.0
17932	03 32 16.54	-27 45 34.2	23.35	0.893	–	Hα	2.5
17937	03 32 24.66	-27 45 33.6	23.07	2.318	2.312	[OII], Hβ, [OIII]	4.0
17943	03 32 47.13	-27 45 31.9	23.59	1.304	–	[OIII], Hα, [SII]	3.0
17973	03 32 45.95	-27 45 30.6	23.92	1.435	–	[OIII], Hα, [SII]	3.0
17994	03 32 26.77	-27 45 30.5	23.79	1.122	1.122	Hα	2.0
18023	03 32 21.72	-27 45 29.7	23.46	2.076	2.080	Hβ, [OIII]	3.0
18068	03 32 22.78	-27 45 28.1	23.43	1.987	–	[OIII]	2.5
18085	03 32 03.37	-27 45 25.4	25.27	2.318	0.316	Hβ, [OIII]	3.0
18095	03 32 08.97	-27 45 26.3	23.57	2.025	–	[OII], Hβ, [OIII]	3.0
18109	03 32 08.90	-27 45 26.0	23.95	2.017	–	[OIII]	2.5
18132	03 32 17.49	-27 45 28.2	21.72	1.042	1.039	Hα, [SII]	3.0
18160	03 32 39.26	-27 45 32.2	20.67	1.118	1.095	Hα	2.5
18177	03 32 12.48	-27 45 30.4	21.91	1.372	1.375	Hα, [SII]	3.0
18213	03 32 33.15	-27 45 22.7	23.92	1.930	1.918	[OIII]	2.5
18240	03 32 28.90	-27 45 25.2	22.50	0.978	0.952	Hα	2.0
18243	03 32 05.49	-27 45 25.2	21.52	1.191	1.189	Hα	2.5
18315	03 32 33.84	-27 45 20.5	23.50	2.310	–	[OII], [OIII]	3.0
18334	03 32 36.07	-27 45 19.7	23.49	2.302	–	[OII], [OIII]	3.0
18343	03 32 05.95	-27 45 20.4	22.40	0.978	0.974	Hα	2.5
18369	03 32 37.88	-27 45 18.7	23.27	0.910	0.906	Hα	2.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
18371	03 32 12.36	-27 45 18.6	22.80	1.210	1.213	Hα, [SII]	3.0
18375	03 32 39.60	-27 45 20.1	23.66	1.077	–	Hα	2.0
18380	03 32 22.82	-27 45 18.3	22.82	1.084	1.087	Hα, [SII]	3.0
18393	03 32 24.67	-27 45 21.7	22.44	1.583	–	[OIII]	2.5
18402	03 32 33.84	-27 45 18.1	22.88	2.130	–	[OII], Hβ, [OIII]	3.0
18408	03 32 16.94	-27 45 19.3	22.23	1.298	1.303	Hα	2.0
18413	03 32 23.60	-27 45 17.0	23.89	1.040	–	Hα, [SII]	2.5
18420	03 32 04.89	-27 45 18.2	22.87	1.337	–	[OIII], Hα	3.0
18443	03 32 30.97	-27 45 16.3	23.20	1.084	–	Hα	2.5
18457	03 32 17.11	-27 45 17.4	23.32	1.368	–	[OIII], Hα	4.0
18484	03 32 19.82	-27 45 14.8	23.27	1.300	–	Hα	2.5
18486	03 32 46.58	-27 45 16.2	22.51	0.841	0.839	Hα, [SII]	3.0
18509	03 32 18.73	-27 45 14.4	22.60	1.877	1.876	Hβ, [OIII]	3.0
18540	03 32 31.48	-27 45 13.7	23.45	0.971	–	Hα	2.5
18585	03 32 46.00	-27 45 12.6	22.52	0.841	0.837	Hα, [SII]	3.0
18619	03 32 29.63	-27 45 11.3	23.23	1.033	1.033	Hα, [SII]	2.5
18732	03 32 37.89	-27 45 08.0	23.44	1.016	–	Hα, [SII]	2.5
18750	03 32 23.09	-27 45 09.1	22.12	1.020	0.995	Hα	2.5
18804	03 32 15.35	-27 45 06.9	21.72	0.861	0.861	Hα	2.5
18811	03 32 09.25	-27 45 05.0	22.62	1.305	–	Hα	2.0
18821	03 32 05.98	-27 45 07.4	21.11	1.069	1.068	Hα	2.5
18832	03 32 08.68	-27 45 08.0	21.13	1.296	1.296	Hα	2.0
18844	03 32 29.70	-27 45 07.2	21.86	0.741	0.736	Hα	2.5
18845	03 32 24.02	-27 45 04.0	23.04	1.117	1.110	Hα	2.0
18851	03 32 27.66	-27 45 05.7	23.24	1.115	1.110	Hα	2.0
18884	03 32 40.97	-27 45 04.1	22.13	0.837	0.828	Hα	2.5
18904	03 32 25.35	-27 45 02.8	22.66	0.973	0.975	Hα, [SII]	3.0
18936	03 32 13.15	-27 45 01.1	23.44	1.841	–	Hβ, [OIII]	3.0
18955	03 32 30.21	-27 45 04.5	21.10	0.743	0.738	Hα	2.0
18959	03 32 48.56	-27 45 04.6	20.85	1.107	1.113	Hα	2.5
18967	03 32 37.57	-27 45 02.7	23.46	1.605	–	[OIII]	2.0
19026	03 32 12.91	-27 44 59.8	22.84	1.193	–	Hα	2.5
19029	03 32 11.04	-27 44 56.8	23.50	0.828	0.832	Hα	2.5
19079	03 32 31.46	-27 44 57.4	23.65	1.228	1.224	Hα	2.5
19081	03 32 25.77	-27 44 59.2	22.24	0.836	0.833	Hα, [SII]	3.0
19136	03 32 42.09	-27 44 58.3	22.13	1.102	1.098	Hα	2.5
19138	03 32 41.40	-27 44 57.6	21.90	1.209	1.202	Hα, [SII]	3.0
19143	03 32 06.70	-27 44 55.1	23.49	2.452	–	[OII]	2.0
19176	03 32 29.92	-27 44 54.2	23.67	0.976	–	Hα	2.0
19178	03 32 12.50	-27 44 54.8	22.75	0.733	0.732	Hα, [SII]	3.0
19202	03 32 47.29	-27 44 53.2	23.82	1.074	–	Hα, [SII]	2.5
19206	03 32 41.56	-27 44 52.7	23.69	1.351	1.353	[OIII], Hβ	3.0
19235	03 32 47.48	-27 44 54.3	23.90	2.327	–	[OIII]	2.5
19265	03 32 28.42	-27 44 53.3	23.05	0.971	–	Hα	2.0
19274	03 32 24.92	-27 44 51.5	23.71	2.103	–	Hβ, [OIII]	3.0
19314	03 32 24.73	-27 44 50.2	23.41	2.015	2.025	Hβ, [OIII]	3.0
19326	03 32 06.24	-27 44 48.6	23.76	0.969	–	Hα	2.5
19400	03 32 16.49	-27 44 49.0	21.38	0.978	0.976	Hα, [SII]	3.0
19416	03 32 17.51	-27 44 46.4	23.26	1.265	–	[OIII], Hα, [SII]	3.0
19431	03 32 38.78	-27 44 48.9	20.53	0.745	0.735	Hα, [SII]	3.0
19460	03 32 27.11	-27 44 43.9	23.85	2.318	2.324	[OII], [OIII]	3.0
19476	03 32 20.04	-27 44 47.1	22.23	1.894	1.897	[OIII]	2.0
19549	03 32 11.71	-27 44 44.2	22.76	1.885	1.877	Hβ, [OIII]	3.0
19556	03 32 16.31	-27 44 41.8	22.56	1.120	–	Hα	2.5
19590	03 32 14.60	-27 44 40.1	23.68	1.801	–	[OIII]	2.5
19630	03 32 19.07	-27 44 39.0	23.63	2.596	2.616	[OII]	2.5
19633	03 32 35.12	-27 44 39.5	21.91	1.039	1.038	Hα, [SII]	3.0
19638	03 32 16.69	-27 44 39.9	22.03	0.970	0.967	Hα	2.5
19646	03 32 39.49	-27 44 40.0	23.66	0.677	–	Hα, [SIII]λ9532	3.0
19741	03 32 31.83	-27 44 35.3	23.39	1.898	1.883	[OIII]	2.5
19772	03 32 15.80	-27 44 34.5	23.19	1.107	–	Hα	2.5
19797	03 32 26.16	-27 44 33.2	23.33	1.613	1.609	Hβ, [OIII]	3.0
19818	03 32 18.07	-27 44 33.4	22.50	1.377	–	Hβ, [OIII], Hα, [SII]	4.0
19820	03 32 15.23	-27 44 37.9	22.26	1.113	1.109	Hα, [SII]	2.0
19824	03 32 04.93	-27 44 31.7	23.31	3.470	3.462	[OII]	2.5
19829	03 32 15.52	-27 44 32.8	23.27	1.205	–	Hα, [SII]	3.0
19841	03 32 14.78	-27 44 33.1	21.57	0.737	0.736	Hα	2.0
19866	03 32 31.08	-27 44 33.2	22.74	1.222	1.223	[OIII], Hα	3.0
19905	03 32 18.04	-27 44 31.4	23.00	1.376	1.227	Hα	2.5
19908	03 32 47.88	-27 44 33.2	22.60	2.067	–	[OIII]	2.5
19914	03 32 17.95	-27 44 31.4	22.34	1.228	1.223	Hα	2.5
19959	03 32 25.76	-27 44 30.8	21.23	0.895	0.891	Hα	2.0
19962	03 32 05.39	-27 44 29.2	22.52	1.052	0.910	Hα	2.5
20061	03 32 41.40	-27 44 23.8	23.94	2.000	–	[OII], [OIII]	2.5
20168	03 32 36.03	-27 44 23.7	21.54	1.056	1.038	Hα	2.5

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
20180	03 32 35.70	-27 44 19.9	23.19	0.936	–	Hα, [SII]	3.0
20189	03 32 09.85	-27 44 19.1	23.82	2.172	–	Hβ, [OIII]	3.0
20213	03 32 26.13	-27 44 18.8	23.22	2.030	2.021	–	2.0
20219	03 32 22.58	-27 44 25.8	19.48	0.743	0.738	Hα	2.5
20237	03 32 20.11	-27 44 22.4	21.09	1.210	1.217	Hα, [SII]	3.0
20239	03 32 42.05	-27 44 21.2	21.90	1.150	1.152	Hα	2.5
20242	03 32 47.28	-27 44 17.4	23.90	2.149	–	[OII], [OIII]	2.5
20299	03 32 35.34	-27 44 19.2	22.42	1.232	1.224	Hα	2.5
20341	03 32 35.32	-27 44 17.2	23.58	1.331	–	Hα	2.5
20343	03 32 10.18	-27 44 16.3	22.66	2.309	2.304	[OIII]	2.5
20357	03 32 37.69	-27 44 16.1	22.15	1.214	–	Hα, [SII]	3.0
20403	03 32 33.77	-27 44 17.4	22.18	1.309	1.299	Hα	2.5
20447	03 32 10.91	-27 44 14.9	21.54	2.506	1.613	[OII]	2.5
20482	03 32 46.18	-27 44 09.5	23.69	1.963	–	Hβ, [OIII]	3.0
20495	03 32 11.86	-27 44 13.3	21.40	1.282	1.325	Hα	2.5
20522	03 32 09.77	-27 44 08.8	23.45	0.859	–	Hα	2.0
20534	03 32 45.74	-27 44 09.7	23.49	1.144	1.142	Hα	2.5
20540	03 32 24.01	-27 44 08.2	23.48	1.614	1.610	Hβ, [OIII]	3.0
20579	03 32 14.28	-27 44 09.7	23.26	0.970	–	Hα	2.5
20587	03 32 14.98	-27 44 08.1	23.51	2.637	2.673	[OII]	2.5
20628	03 32 24.64	-27 44 07.6	21.97	1.617	1.901	Hβ, [OIII]	3.0
20636	03 32 46.91	-27 44 06.8	21.69	1.141	1.146	Hα, [SII]	3.0
20639	03 32 37.40	-27 44 06.9	21.43	1.024	1.017	Hα	2.5
20694	03 32 34.57	-27 44 04.5	22.70	0.933	–	Hα	2.0
20742	03 32 12.15	-27 44 02.6	23.67	1.250	–	Hα, [SII]	3.0
20780	03 32 05.41	-27 44 01.6	22.48	0.790	–	Hα	2.5
20795	03 32 16.52	-27 44 00.4	23.25	1.260	–	Hα, [SII]	3.0
20831	03 32 08.27	-27 44 00.4	23.24	1.600	–	[OIII]	2.5
20834	03 32 45.18	-27 44 01.3	23.31	1.925	1.962	[OIII]	2.5
20861	03 32 41.11	-27 43 58.5	23.27	2.191	–	[OII], Hβ, [OIII]	3.0
20920	03 32 46.34	-27 43 56.5	22.96	0.984	0.979	Hα, [SII]	4.0
20927	03 32 03.79	-27 43 56.1	23.07	0.956	–	Hα	2.5
21004	03 32 11.82	-27 43 55.2	23.17	1.231	–	[OIII], Hα	3.0
21056	03 32 21.80	-27 43 52.3	23.92	1.309	–	Hα	2.5
21098	03 32 31.52	-27 43 50.8	23.41	2.189	2.193	[OII], Hβ, [OIII]	4.0
21112	03 32 34.13	-27 43 50.3	23.75	1.992	–	[OII], Hβ, [OIII]	4.0
21118	03 32 05.12	-27 43 51.0	22.18	0.809	0.807	Hα, [SII]	2.0
21123	03 32 32.14	-27 43 49.8	22.58	0.980	0.973	Hα	2.0
21133	03 32 07.16	-27 43 55.9	20.97	1.217	–	Hα	2.5
21162	03 32 23.95	-27 43 49.0	22.22	1.310	1.311	[OIII], Hα, [SII]	4.0
21226	03 32 32.33	-27 43 45.8	23.37	1.022	–	Hα	2.5
21236	03 32 43.63	-27 43 47.7	22.80	2.316	2.313	[OII], [OIII]	3.0
21258	03 32 30.74	-27 43 45.3	23.30	1.434	–	Hβ, [OIII], Hα, [SII]	3.0
21282	03 32 10.69	-27 43 46.9	22.43	1.356	1.327	Hα	2.5
21299	03 32 41.34	-27 43 44.1	23.02	0.984	–	Hα, [SII]	2.5
21307	03 32 31.50	-27 43 42.7	23.87	2.097	–	[OIII]	2.5
21321	03 32 38.83	-27 43 44.9	22.47	1.227	–	Hα	2.5
21329	03 32 24.53	-27 43 42.3	23.02	1.088	–	Hα	2.5
21354	03 32 08.10	-27 43 44.1	21.74	1.211	–	Hα	2.0
21398	03 32 03.49	-27 43 40.5	23.88	3.129	3.132	[OII]	2.5
21464	03 32 47.02	-27 43 46.4	21.00	1.179	1.178	Hα	2.5
21527	03 32 10.39	-27 43 37.6	23.21	1.991	–	[OII], Hβ, [OIII]	4.0
21564	03 32 43.46	-27 43 36.5	23.45	2.078	–	Hβ, [OIII]	3.0
21568	03 32 17.51	-27 43 36.5	23.41	1.610	1.608	[OIII]	2.5
21579	03 32 33.96	-27 43 36.7	23.27	1.352	–	Hα	2.5
21594	03 32 14.68	-27 43 37.0	22.42	0.979	–	Hα, [SII]	3.0
21612	03 32 44.30	-27 43 35.7	23.69	1.430	–	Hβ, [OIII]	3.0
21616	03 32 15.41	-27 43 39.4	22.03	1.563	–	[OIII]	2.5
21624	03 32 21.65	-27 43 34.5	23.89	2.036	–	Hβ, [OIII]	3.0
21679	03 32 43.41	-27 43 34.6	23.52	2.172	–	Hβ, [OIII]	3.0
21681	03 32 49.24	-27 43 33.6	22.78	1.169	–	Hα	2.5
21688	03 32 03.98	-27 43 37.4	20.60	0.969	–	Hα	2.0
21699	03 32 46.98	-27 43 34.4	22.35	1.259	–	[OIII], Hα, [SII]	3.0
21786	03 32 04.37	-27 43 31.1	22.49	2.267	2.256	[OII], Hβ, [OIII]	4.0
21792	03 32 17.27	-27 43 29.7	23.25	1.896	1.905	[OIII]	2.5
21826	03 32 15.21	-27 43 30.0	22.88	0.747	–	Hα	2.5
21839	03 32 34.01	-27 43 28.2	23.63	1.602	–	Hβ, [OIII]	3.0
21885	03 32 16.97	-27 43 26.8	23.11	0.734	–	Hα	2.5
21888	03 32 10.95	-27 43 29.7	21.38	1.216	1.215	Hα, [SII]	3.0
21923	03 32 46.24	-27 43 26.3	23.61	1.247	–	Hα	2.5
21932	03 32 40.40	-27 43 25.4	23.99	1.248	–	[OIII]	2.5
21933	03 32 41.96	-27 43 27.0	23.17	0.778	0.767	Hα, [SII]	2.5
21963	03 32 38.60	-27 43 24.6	23.28	1.043	–	Hα, [SII]	3.0
21985	03 32 13.34	-27 43 24.3	23.34	1.296	1.297	[OIII], Hα	3.0
22005	03 32 40.33	-27 43 24.6	22.32	1.254	1.245	[OIII], Hα, [SII]	4.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
22007	03 32 22.73	-27 43 24.9	21.95	0.739	–	Hα, [SIII]λ9532	3.0
22048	03 32 46.14	-27 43 23.5	22.87	1.262	–	Hα	2.5
22051	03 32 12.48	-27 43 21.4	23.59	1.288	–	Hα	2.5
22101	03 32 26.38	-27 43 21.5	23.02	1.112	1.110	Hα, [SII]	3.0
22123	03 32 29.47	-27 43 22.0	22.05	1.612	1.609	[OIII]	2.5
22219	03 32 38.29	-27 43 18.1	23.13	1.419	–	Hα	2.5
22233	03 32 43.04	-27 43 19.3	21.21	0.756	0.743	Hα	2.5
22246	03 32 39.64	-27 43 14.8	23.97	1.354	–	[OIII], Hα, [SII]	4.0
22263	03 32 37.32	-27 43 14.9	23.28	0.897	–	Hα, [SII]	3.0
22279	03 32 29.87	-27 43 17.7	21.71	1.093	–	Hα	2.0
22304	03 32 45.71	-27 43 15.8	23.64	1.248	–	[OIII], Hα	3.0
22334	03 32 39.48	-27 43 14.1	22.55	1.174	–	Hα	2.5
22343	03 32 09.55	-27 43 13.8	22.38	1.017	1.017	Hα	2.5
22350	03 32 43.82	-27 43 12.6	23.22	1.342	–	[OIII], Hα	2.5
22354	03 32 13.65	-27 43 13.0	22.53	1.478	1.467	[OIII], Hα	3.0
22371	03 32 30.06	-27 43 18.9	20.65	1.102	1.098	Hα	2.0
22376	03 32 15.76	-27 43 13.3	23.04	1.738	–	Hβ, [OIII]	3.0
22408	03 32 27.09	-27 43 11.6	22.30	1.111	–	Hα, [SII]	3.0
22428	03 32 46.34	-27 43 10.6	22.80	0.730	–	Hα	2.5
22435	03 32 13.88	-27 43 12.3	21.96	2.030	1.898	[OII], [OIII]	3.0
22459	03 32 23.68	-27 43 08.7	23.22	0.979	–	Hα, [SII]	3.0
22467	03 32 43.66	-27 43 08.1	23.79	2.100	–	Hβ, [OIII]	3.0
22470	03 32 41.24	-27 43 09.7	22.70	1.375	1.222	Hα	2.5
22511	03 32 30.75	-27 43 06.8	22.82	0.858	0.860	Hα	2.0
22517	03 32 20.95	-27 43 06.4	23.87	1.309	1.308	Hβ, [OIII], Hα	3.0
22541	03 32 10.93	-27 43 09.9	21.70	1.012	1.016	Hα	2.5
22574	03 32 30.59	-27 43 05.9	23.52	1.376	–	Hα	2.0
22593	03 32 40.63	-27 43 08.3	21.46	1.223	1.225	Hα	2.5
22602	03 32 39.67	-27 43 06.7	22.36	1.966	1.965	Hβ, [OIII]	3.0
22608	03 32 22.45	-27 43 03.8	23.42	2.292	–	[OII], Hβ, [OIII]	3.0
22611	03 32 14.06	-27 43 03.7	23.51	3.143	–	[OII]	2.0
22621	03 32 17.55	-27 43 05.4	23.60	1.187	–	Hα	2.5
22641	03 32 36.97	-27 43 04.3	23.04	1.222	–	Hα	2.5
22654	03 32 19.75	-27 43 08.7	23.03	1.486	–	Hα, [SII]	3.0
22702	03 32 09.79	-27 43 08.6	22.19	2.299	2.302	[OII], Hβ, [OIII]	4.0
22775	03 32 15.44	-27 43 03.6	22.11	1.217	–	Hα	2.5
22794	03 32 37.90	-27 42 58.5	23.98	2.134	–	[OIII]	2.5
22795	03 32 14.08	-27 42 58.8	23.24	1.023	–	Hα	2.5
22804	03 32 19.14	-27 42 58.3	23.24	1.021	–	Hα, [SII]	3.0
22833	03 32 43.39	-27 42 59.1	22.93	0.980	–	Hα	2.5
22849	03 32 16.92	-27 41 44.3	23.55	1.671	–	[OIII]	2.5
22851	03 32 17.17	-27 42 02.6	23.65	2.301	–	Hβ, [OIII]	3.0
22855	03 32 35.84	-27 40 59.4	20.38	0.738	0.735	Hα, [SII], [SIII]λ9532	4.0
22857	03 32 18.86	-27 42 26.7	22.09	1.087	–	Hα	2.5
22889	03 32 39.12	-27 42 21.8	23.47	1.772	–	Hβ, [OIII]	3.0
22917	03 32 07.57	-27 42 26.1	22.53	2.049	2.045	Hβ, [OIII]	3.0
22934	03 32 19.12	-27 42 28.1	23.92	1.217	–	Hα	2.5
23028	03 32 38.11	-27 42 18.3	22.74	0.868	0.863	Hα	2.5
23053	03 32 28.64	-27 42 33.5	21.53	1.035	–	Hα, [SII]	3.0
23138	03 32 30.49	-27 42 34.3	23.90	0.748	0.745	Hα	2.5
23170	03 32 37.78	-27 42 32.4	23.31	2.976	2.975	[OII]	2.5
23187	03 32 31.63	-27 42 35.0	23.61	0.820	–	Hα	2.5
23207	03 32 32.41	-27 41 50.1	21.61	1.300	1.297	Hβ, [OIII], Hα, [SII]	3.0
23246	03 32 38.59	-27 42 37.0	22.81	1.250	1.246	[OIII], Hα, [SII]	3.0
23311	03 32 21.93	-27 42 35.8	23.90	1.974	–	Hβ, [OIII]	3.0
23312	03 32 26.92	-27 42 39.7	21.92	1.597	–	Hβ, [OIII]	2.5
23341	03 32 24.80	-27 42 40.6	23.77	2.044	–	[OIII]	2.5
23373	03 32 22.01	-27 42 43.3	22.33	1.749	1.613	[OIII]	2.0
23375	03 32 28.17	-27 42 38.8	23.16	1.606	–	[OIII]	2.5
23381	03 32 07.47	-27 42 36.1	23.87	2.055	–	[OII], [OIII]	3.0
23397	03 32 29.64	-27 42 42.5	20.08	0.670	0.668	[SIII]λ9069,λ9532	3.0
23427	03 32 22.64	-27 42 39.5	23.62	1.228	–	Hα	2.5
23441	03 32 29.29	-27 42 44.8	22.25	1.040	1.040	Hα, [SII]	3.0
23451	03 32 26.61	-27 42 41.1	23.24	1.019	–	Hα	2.5
23453	03 32 19.95	-27 42 43.1	23.95	2.200	–	[OIII]	2.5
23465	03 32 08.17	-27 42 40.4	22.23	2.263	–	[OII], [OIII]	3.0
23486	03 32 28.41	-27 42 46.5	22.75	2.141	–	[OII], Hβ, [OIII]	4.0
23491	03 32 25.77	-27 42 47.6	23.03	1.033	–	Hα	2.0
23514	03 32 18.55	-27 42 47.2	23.46	1.217	–	Hα	2.5
23565	03 32 08.66	-27 42 50.1	23.23	2.065	–	Hβ, [OIII]	3.0
23567	03 32 32.88	-27 42 46.2	23.48	2.054	–	[OIII]	2.5
23583	03 32 25.88	-27 42 38.3	23.73	1.617	–	[OIII]	2.0
23600	03 32 13.85	-27 42 48.9	19.96	0.739	0.734	Hα, [SII]	3.0
23618	03 32 19.70	-27 42 49.4	23.46	2.067	–	[OII], Hβ, [OIII]	3.0
23631	03 32 24.89	-27 42 50.7	23.54	2.249	–	[OII], Hβ, [OIII]	4.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
23632	03 32 28.12	-27 42 48.2	23.41	1.618	–	Hβ, [OIII]	3.0
23665	03 32 34.88	-27 42 45.4	23.83	1.361	–	[OIII], Hα, [SII]	3.0
23714	03 32 02.49	-27 42 50.6	22.80	2.081	2.078	[OII], Hβ, [OIII]	4.0
23771	03 32 29.01	-27 42 55.4	20.56	1.036	–	Hα	2.5
23810	03 32 14.63	-27 42 56.1	23.46	1.159	–	Hα	2.0
23811	03 32 11.85	-27 42 54.9	23.74	2.327	–	[OII]	2.5
23817	03 32 07.87	-27 42 55.4	23.33	1.013	–	Hα	2.5
23845	03 32 23.43	-27 42 55.0	22.44	2.134	2.118	Hβ, [OIII]	3.0
23851	03 32 29.99	-27 42 52.5	23.95	1.043	–	Hα	2.5
23855	03 32 13.56	-27 42 56.4	22.68	1.018	1.018	Hα, [SII]	3.0
23856	03 32 05.67	-27 42 53.5	21.43	1.293	1.296	Hβ, [OIII], Hα, [SII]	3.0
23862	03 32 45.33	-27 42 52.4	23.53	1.222	–	Hα	2.5
23917	03 32 02.97	-27 42 56.6	22.92	1.415	–	Hα, [SII]	2.5
23927	03 32 45.10	-27 42 55.7	21.94	1.037	–	Hα	2.0
23948	03 32 29.92	-27 42 58.5	22.82	1.493	–	Hα	2.0
23970	03 32 14.36	-27 42 58.6	22.18	1.021	–	Hα	2.0
23988	03 32 21.72	-27 42 55.0	23.51	2.289	–	[OII], Hβ, [OIII]	3.0
24020	03 32 28.76	-27 42 53.2	23.73	1.935	–	Hβ, [OIII]	3.0
24042	03 32 27.02	-27 42 56.3	22.92	0.942	–	Hα	2.5
24152	03 32 38.82	-27 40 22.8	23.26	0.759	–	Hα	2.5
24180	03 32 33.89	-27 40 25.9	23.41	0.993	–	Hα	2.5
24192	03 32 29.94	-27 43 01.5	21.34	1.348	1.356	Hα, [SII]	3.0
24204	03 32 14.26	-27 42 54.2	22.68	0.813	0.814	Hα, [SII]	3.0
24259	03 32 33.81	-27 40 23.3	23.96	1.871	–	[OIII]	2.5
24270	03 32 39.16	-27 40 26.5	20.42	0.776	0.771	Hα	2.5
24274	03 32 27.93	-27 42 45.7	21.91	1.490	1.610	[OIII]	2.5
24282	03 32 34.73	-27 40 26.5	23.54	1.511	–	Hα, [OIII]	3.0
24358	03 32 37.93	-27 40 25.5	22.70	2.150	–	–	2.0
24443	03 32 31.22	-27 40 52.1	22.01	1.330	–	Hα, [SII]	3.0
24494	03 32 37.34	-27 40 41.9	23.63	1.360	–	Hα	2.5
24564	03 32 32.55	-27 40 58.2	22.18	0.787	–	Hα	2.0
24649	03 32 31.83	-27 40 53.4	23.25	1.226	–	Hα, [SII]	3.0
24682	03 32 24.98	-27 41 01.5	20.21	0.735	0.733	Hα, [SII]	3.0
24720	03 32 26.56	-27 41 01.5	23.12	1.164	–	Hα	2.0
24738	03 32 30.92	-27 40 58.3	21.47	0.747	0.742	Hα	2.5
24740	03 32 34.75	-27 40 56.8	22.30	2.227	–	[OIII]	2.5
24785	03 32 33.03	-27 40 48.0	23.69	1.138	–	Hα	2.5
24796	03 32 21.15	-27 41 06.6	20.36	1.117	1.110	Hα, [SII]	3.0
24814	03 32 26.17	-27 41 00.9	22.99	1.046	–	Hα, [SII]	3.0
24844	03 32 35.51	-27 41 01.2	23.58	1.148	–	Hα	2.0
24851	03 32 25.61	-27 41 11.8	23.93	1.042	–	Hα, [SII]	3.0
24854	03 32 25.30	-27 41 12.7	22.59	2.625	–	[OII]	2.5
24884	03 32 37.65	-27 40 51.5	22.00	1.539	–	[OIII], Hβ	3.0
24896	03 32 34.94	-27 41 06.8	23.71	2.775	2.771	[OII]	2.5
24911	03 32 35.94	-27 41 07.7	22.09	1.265	1.257	[OIII], Hα, [SII]	3.0
24927	03 32 29.29	-27 41 12.8	22.20	0.853	0.839	Hα	2.5
24943	03 32 31.77	-27 41 12.6	21.67	1.037	–	Hα	2.5
24985	03 32 19.59	-27 41 17.2	21.53	1.312	–	Hβ, Hα	2.5
24987	03 32 32.46	-27 40 56.5	21.42	1.261	–	Hα, [OIII], [SII]	4.0
24991	03 32 20.59	-27 41 12.2	22.59	2.047	2.040	[OII], Hβ, [OIII]	3.0
25090	03 32 23.72	-27 41 11.5	23.87	2.154	–	Hβ, [OIII]	3.0
25151	03 32 34.39	-27 41 24.3	23.85	3.419	–	[OII]	2.5
25187	03 32 34.68	-27 41 25.1	23.97	1.600	–	[OIII]	2.5
25199	03 32 33.24	-27 41 25.7	23.08	0.878	0.827	Hα, [SII]	3.0
25239	03 32 34.88	-27 41 24.8	23.61	2.308	–	[OII], Hβ, [OIII]	3.0
25285	03 32 32.29	-27 41 26.3	22.67	2.333	2.320	[OII], Hβ, [OIII]	4.0
25341	03 32 34.39	-27 41 26.9	23.59	1.040	–	Hα, [SII]	3.0
25373	03 32 33.08	-27 41 28.4	22.83	1.048	1.044	Hα	2.5
25380	03 32 36.88	-27 41 34.0	23.15	2.318	–	[OIII]	2.5
25381	03 32 16.68	-27 41 33.0	23.92	2.079	–	[OIII]	2.0
25391	03 32 18.28	-27 41 29.7	23.28	1.419	–	Hβ, [OIII], Hα, [SII]	3.0
25421	03 32 29.73	-27 41 34.3	23.55	1.235	–	Hα	2.5
25463	03 32 39.55	-27 41 38.8	23.97	1.383	–	Hα, [OIII]	3.0
25464	03 32 39.04	-27 41 32.4	21.73	0.737	–	Hα	2.5
25466	03 32 14.64	-27 41 36.5	21.34	1.354	–	Hα	2.5
25478	03 32 26.79	-27 41 29.5	23.22	2.430	–	[OII]	2.5
25508	03 32 37.20	-27 41 39.3	22.72	1.243	–	Hα	2.5
25514	03 32 38.73	-27 41 39.6	23.07	2.313	–	[OII], Hβ, [OIII]	4.0
25521	03 32 17.54	-27 41 38.2	23.88	1.326	1.325	Hβ, [OIII], Hα	3.0
25573	03 32 33.40	-27 41 38.9	20.73	1.042	1.045	Hα, [SII]	3.0
25602	03 32 17.77	-27 41 40.4	21.89	1.328	1.326	Hα	2.0
25651	03 32 15.12	-27 41 43.8	22.44	1.418	–	Hα, [SII]	2.5
25716	03 32 25.57	-27 41 44.0	23.17	1.236	–	Hα, [SII]	2.5
25759	03 32 35.24	-27 41 41.7	23.71	1.427	–	[OIII], Hα	3.0
25784	03 32 32.46	-27 41 51.4	22.77	1.292	1.296	[OIII], Hα, [SII]	3.0

TABLE 1 — *Continued*

Source ID (1)	RA (2)	Dec (3)	AB(F160W) (4)	z_{grism} (5)	z_{spec} (6)	Lines (7)	Qual (8)
25793	03 32 28.38	-27 41 49.9	22.76	1.767	–	Hβ, [OIII]	3.0
25833	03 32 11.54	-27 41 46.7	22.65	1.489	–	[OIII]	2.0
25839	03 32 18.91	-27 41 37.4	23.98	2.300	2.306	[OII], Hβ	3.0
25841	03 32 16.88	-27 41 47.4	23.98	1.526	–	[OIII]	2.5
25850	03 32 18.64	-27 41 44.4	23.00	1.330	–	Hα	2.5
25870	03 32 27.25	-27 41 25.7	23.33	2.457	–	[OII]	2.0
25878	03 32 18.94	-27 41 51.8	21.08	0.978	0.976	Hα, [SII]	3.0
25888	03 32 27.43	-27 41 54.4	23.05	0.958	0.968	Hα	2.5
25896	03 32 14.14	-27 41 52.1	23.12	2.320	–	[OII], Hβ, [OIII]	4.0
25915	03 32 26.47	-27 41 53.0	23.43	1.295	–	Hα, [SII]	2.5
25966	03 32 33.32	-27 42 03.9	23.69	1.709	–	[OIII]	2.5
26050	03 32 13.89	-27 41 58.2	22.62	1.313	–	Hα	2.5
26068	03 32 13.19	-27 41 58.0	22.37	1.302	–	Hα	2.5
26085	03 32 17.77	-27 42 00.4	23.52	1.740	–	Hβ, [OIII]	4.0
26110	03 32 32.85	-27 41 55.7	23.32	0.953	0.951	Hα	2.5
26134	03 32 20.92	-27 42 00.8	23.76	1.705	–	[OIII]	2.5
26135	03 32 31.75	-27 41 57.4	22.00	1.962	–	[OIII]	2.0
26136	03 32 34.90	-27 41 52.8	23.45	2.306	2.313	[OII], Hβ, [OIII]	3.0
26185	03 32 35.29	-27 42 01.8	22.35	1.086	–	Hα	2.5
26209	03 32 33.12	-27 41 54.9	22.39	0.956	–	Hα, [SII]	3.0
26213	03 32 18.27	-27 42 04.1	22.51	0.850	0.848	Hα, [SII]	3.0
26222	03 32 26.80	-27 41 56.3	22.18	1.617	1.614	[OIII]	2.5
26255	03 32 34.60	-27 42 01.2	21.81	1.046	1.042	Hα, [SII]	3.0
26294	03 32 22.42	-27 42 08.9	23.70	1.217	–	[OIII], Hα, [SII]	4.0
26300	03 32 33.83	-27 41 36.8	22.30	1.051	–	Hα	2.5
26301	03 32 26.33	-27 42 09.6	22.41	0.936	0.938	Hα, [SII]	4.0
26306	03 32 20.58	-27 42 02.7	23.77	1.336	–	Hα	2.5
26330	03 32 37.67	-27 42 06.6	22.68	0.850	–	Hα	2.0
26364	03 32 26.48	-27 42 02.2	23.77	1.769	–	Hβ, [OIII]	3.0
26491	03 32 21.84	-27 42 13.8	23.56	1.019	–	Hα	2.5
26518	03 32 22.51	-27 42 12.0	23.54	1.312	–	[OIII], Hα	3.0
26552	03 32 17.67	-27 42 08.8	22.54	1.187	1.188	Hα	2.5
26554	03 32 33.87	-27 42 03.9	21.38	1.607	1.604	Hβ, [OIII]	3.0
26629	03 32 39.26	-27 42 19.2	22.28	1.770	1.764	Hβ, [OIII]	4.0
26637	03 32 25.16	-27 42 18.7	21.43	1.610	1.617	Hβ, [OIII]	4.0
26699	03 32 38.75	-27 42 18.3	22.79	1.433	–	Hβ, Hα	3.0
26704	03 32 29.56	-27 42 24.7	22.80	0.969	–	Hα	2.5
26751	03 32 37.68	-27 42 19.3	22.19	1.437	1.436	Hα, [SII]	3.0
26755	03 32 34.28	-27 42 24.9	20.20	1.090	1.088	Hα	2.5
26788	03 32 23.88	-27 42 22.1	23.15	1.420	–	Hα, [SII]	3.0
26801	03 32 21.60	-27 42 33.2	23.56	1.768	–	[OIII]	2.5
26823	03 32 16.03	-27 42 27.7	23.69	2.022	–	Hβ, [OIII]	3.0
26829	03 32 12.19	-27 42 27.0	22.55	0.734	–	Hα	2.0
26833	03 32 13.75	-27 42 55.8	23.98	2.638	–	[OII]	2.5

NOTE. — [OII] and [OIII] in column 7 above refer always to the [OII]$\lambda\lambda$3727+3729 and [OIII]$\lambda\lambda$4959+5007 emission line doublets.

TABLE 2
Grism-Identified Pairs in GOODS-S

Source ID 1 (Guo+ 2013)	Source ID 2 (Guo+ 2013)	RA Source 1	Dec Source 1	RA Source 2	Dec Source 2	z_1	z_2	Angular Sep. (arcsec)	Proj. Sep. (kpc)	Mass Ratio M_1/M_2
722	726	53.096496	-27.925050	53.096385	-27.925972	1.145	1.146	3.338	27.48	0.847
1708	1695	53.241265	-27.903526	53.241173	-27.903265	1.050	1.045	0.984	7.963	1.086
2524	2526	53.182411	-27.890996	53.181927	-27.891138	1.458	1.465	1.623	13.72	0.974
3606	3689	53.078473	-27.878643	53.078256	-27.878455	0.987	0.987	0.967	7.720	0.981
3707	3952	53.071376	-27.877464	53.072763	-27.876321	1.099	1.100	6.034	49.31	0.845
5948	5983	53.055988	-27.855096	53.056169	-27.855367	1.227	1.226	1.133	9.426	0.948
6223	6195	53.173546	-27.852423	53.175354	-27.852610	0.967	0.962	5.794	45.99	0.971
7129	7172	53.193578	-27.843512	53.193960	-27.843195	2.003	2.011	1.668	13.96	1.011
8472	8452	53.114217	-27.831856	53.113214	-27.832735	1.295	1.293	4.495	37.64	0.951
10987	11071	53.093517	-27.809712	53.093552	-27.809287	2.327	2.334	1.534	12.56	0.963
11160	11218	53.105939	-27.808401	53.106022	-27.807946	2.014	2.020	1.659	13.87	1.007
16113	16275	53.100546	-27.773643	53.101308	-27.772737	1.014	1.016	4.066	32.68	0.952
18095	18109	53.037376	-27.757329	53.037104	-27.757242	2.025	2.017	0.921	7.701	1.044
18967	18795	53.156543	-27.750777	53.157256	-27.751523	1.605	1.607	3.517	29.80	0.908
21681	21576	53.205173	-27.726024	53.205371	-27.726181	1.169	1.163	0.847	6.994	1.091
21839	21897	53.141731	-27.724507	53.142011	-27.724565	1.602	1.602	0.916	7.761	0.956
21932	22005	53.168360	-27.723737	53.168083	-27.723513	1.248	1.245	1.196	9.971	0.949
22795	23970	53.058673	-27.716358	53.059861	-27.716288	1.023	1.022	3.794	30.54	0.979
23632	24274	53.117190	-27.713409	53.116405	-27.712703	1.618	1.610	3.566	30.21	0.868
24564	24904	53.135636	-27.682839	53.136296	-27.683073	0.787	0.787	2.266	16.92	0.974

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